

Date/Time: 2010-11-23 03:05:33

P1528_OET65-WCDMA with ThinkPad T61 rear side-WCDMA1900**DUT: E173u-63**

Communication System: HW -UMTS-FDD; Frequency: 1907.6 MHz

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.62, 4.62, 4.62); Calibrated: 2009-12-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 2009-12-18
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

E173u-63/Body/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.650 mW/g

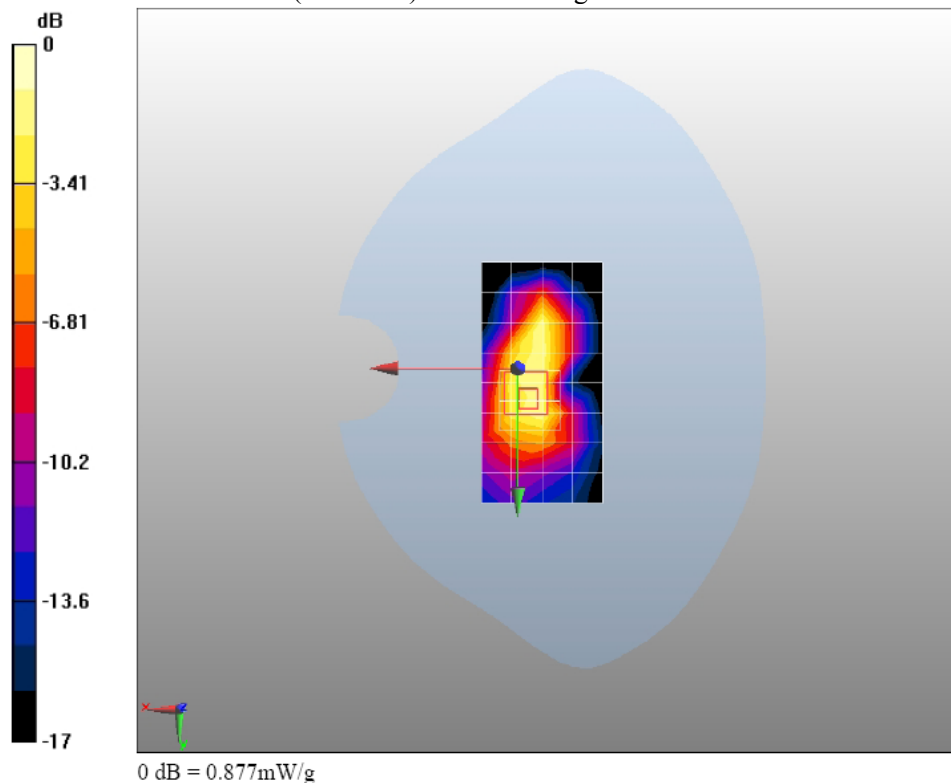
E173u-63/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.2 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.766 mW/g; SAR(10 g) = 0.392 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.877 mW/g

**Additional information:**

position or distance of DUT to SAM: 5 mm

ambient temperature: 22.0 °C; liquid temperature: 22.1°C

Date/Time: 2010-11-23 03:47:25

P1528_OET65-WCDMA with ThinkPad T61 rear side-WCDMA1900**DUT: E173u-63**

Communication System: HW -UMTS-FDD; Frequency: 1852.4 MHz

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.62, 4.62, 4.62); Calibrated: 2009-12-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 2009-12-18
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

E173u-63/Body/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.798 mW/g

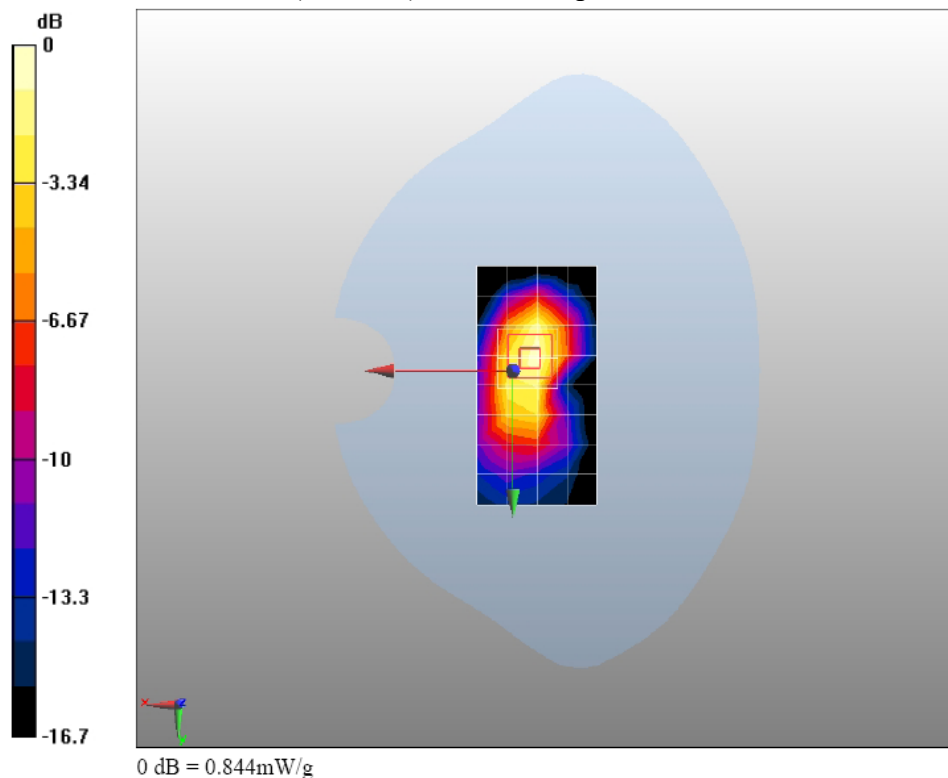
E173u-63/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.9 V/m; Power Drift = 0.00719 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.759 mW/g; SAR(10 g) = 0.428 mW/g[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.844 mW/g

**Additional information:**

position or distance of DUT to SAM: 5 mm

ambient temperature: 22.0 °C; liquid temperature: 22.1°C

Date/Time: 2010-11-23 04:26:13

P1528_OET65-HSDPA with ThinkPad T61 rear side-WCDMA1900**DUT: E173u-63**

Communication System: HW -UMTS-FDD; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.62, 4.62, 4.62); Calibrated: 2009-12-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 2009-12-18
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

E173u-63/Body/Area Scan (7x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.1 mW/g

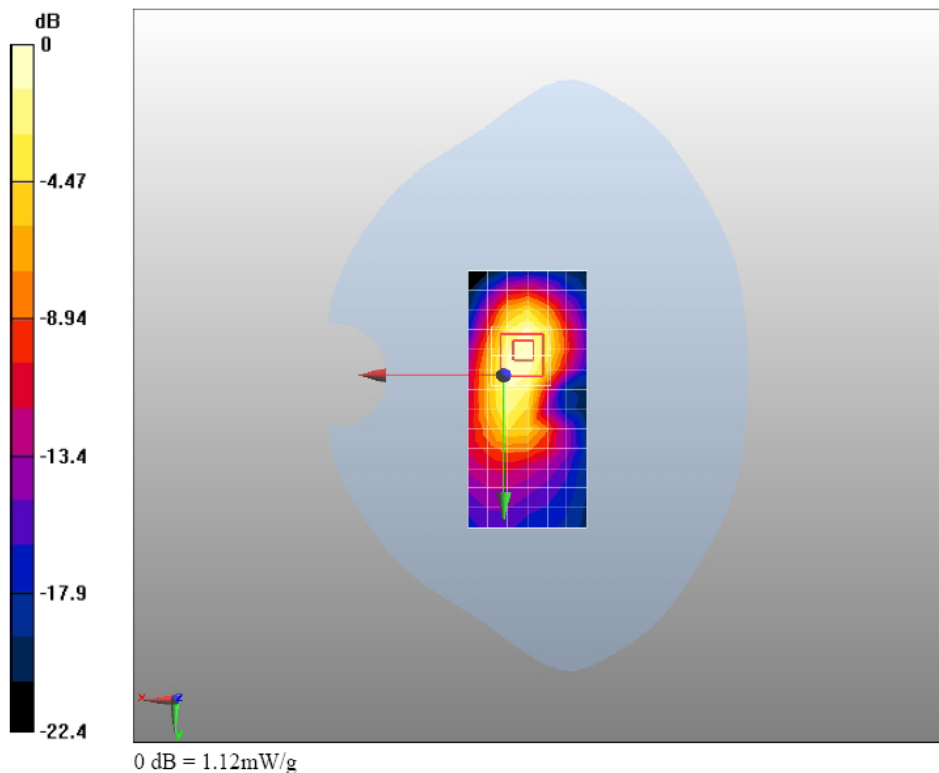
E173u-63/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.2 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 1.000 mW/g; SAR(10 g) = 0.552 mW/g

Maximum value of SAR (measured) = 1.12 mW/g

**Additional information:**

position or distance of DUT to SAM: 5 mm

ambient temperature: 22.0 °C; liquid temperature: 22.1°C

Date/Time: 2010-11-23 05:11:35

P1528_OET65-HSUPA with ThinkPad T61 rear side-WCDMA1900**DUT: E173u-63**

Communication System: HW -UMTS-FDD; Frequency: 1880 MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3168; ConvF(4.62, 4.62, 4.62); Calibrated: 2009-12-18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn852; Calibrated: 2009-12-18
- Phantom: SAM1; Type: SAM; Serial: TP-1475
- Measurement SW: DASYS, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

E173u-63/Body/Area Scan (7x14x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.01 mW/g

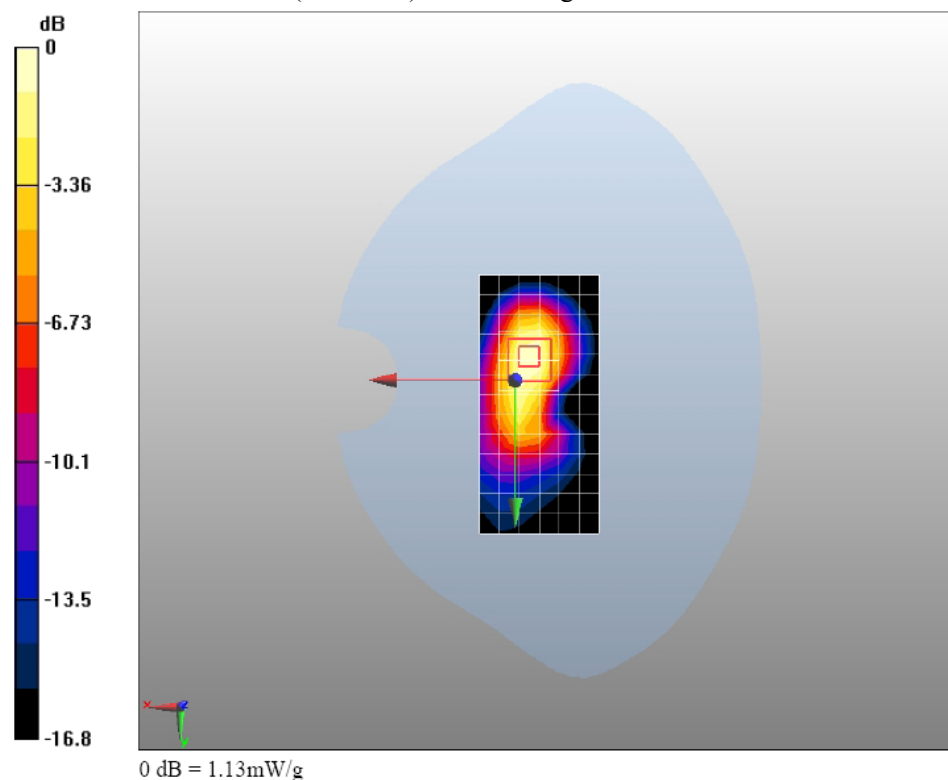
E173u-63/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.5 V/m; Power Drift = -0.181 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.557 mW/g

Maximum value of SAR (measured) = 1.13 mW/g

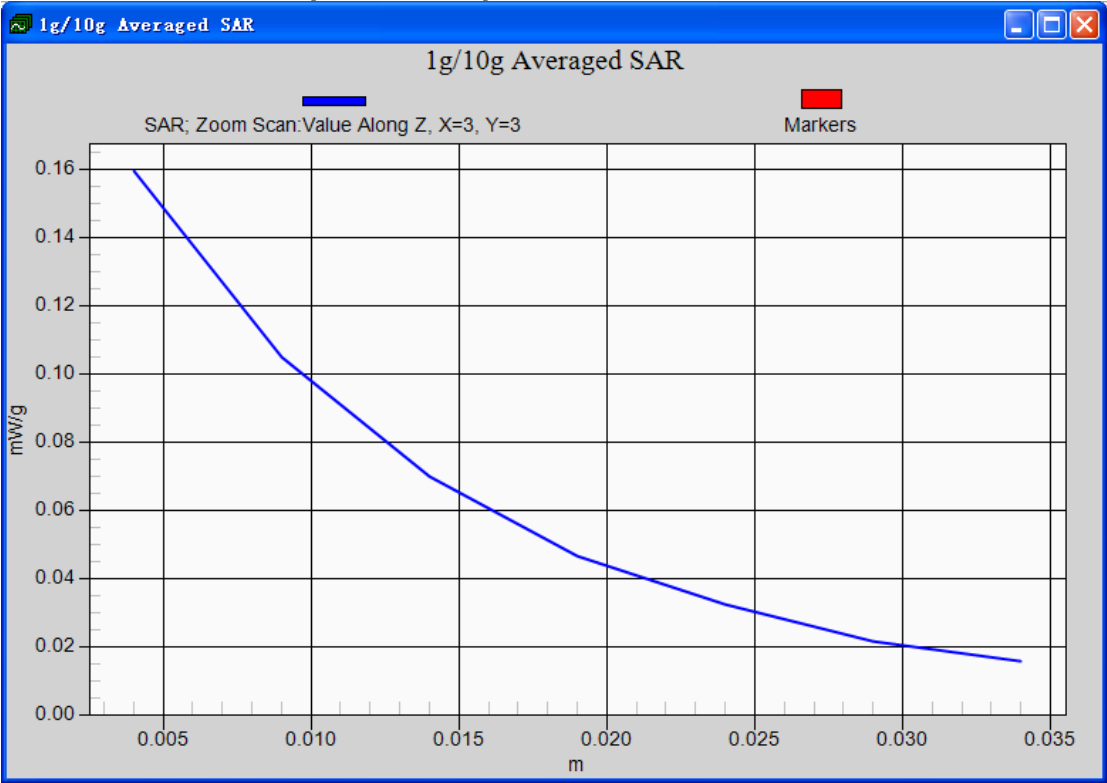
**Additional information:**

position or distance of DUT to SAM: 5 mm

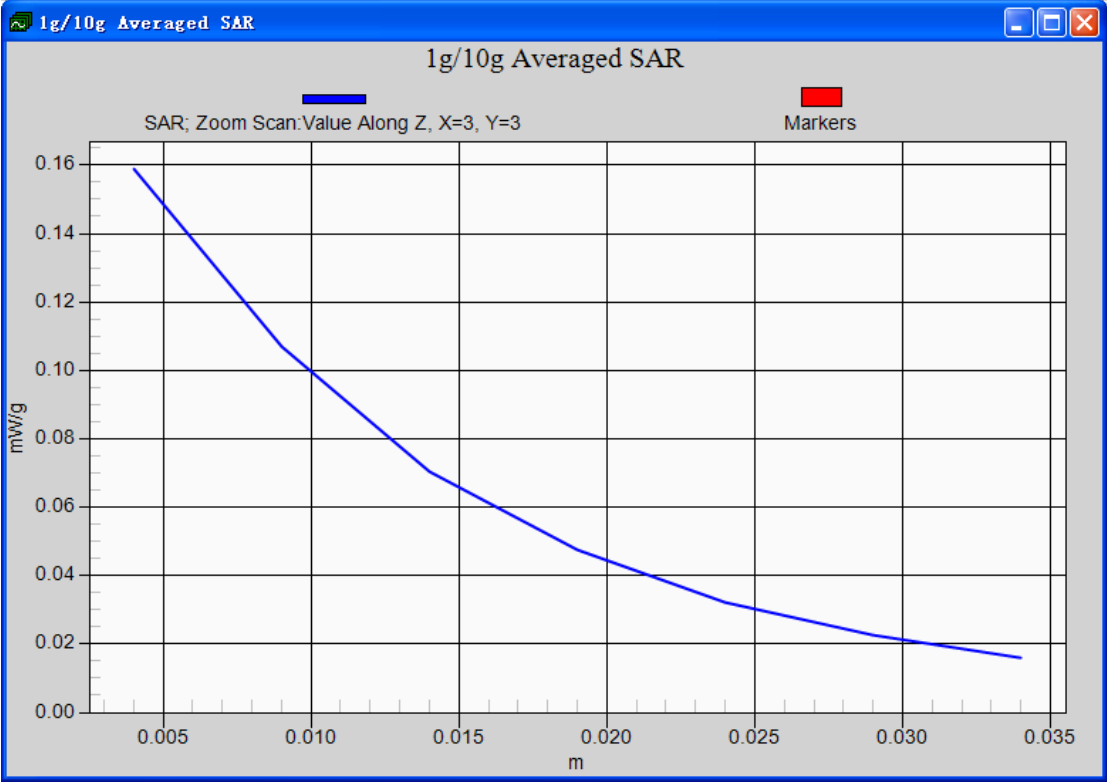
ambient temperature: 22.0 °C; liquid temperature: 22.1°C



Annex 2.4 Z-axis scans
GSM 850
E173u-63 front side (1 timeslots) –GPRS 850 Channel 190

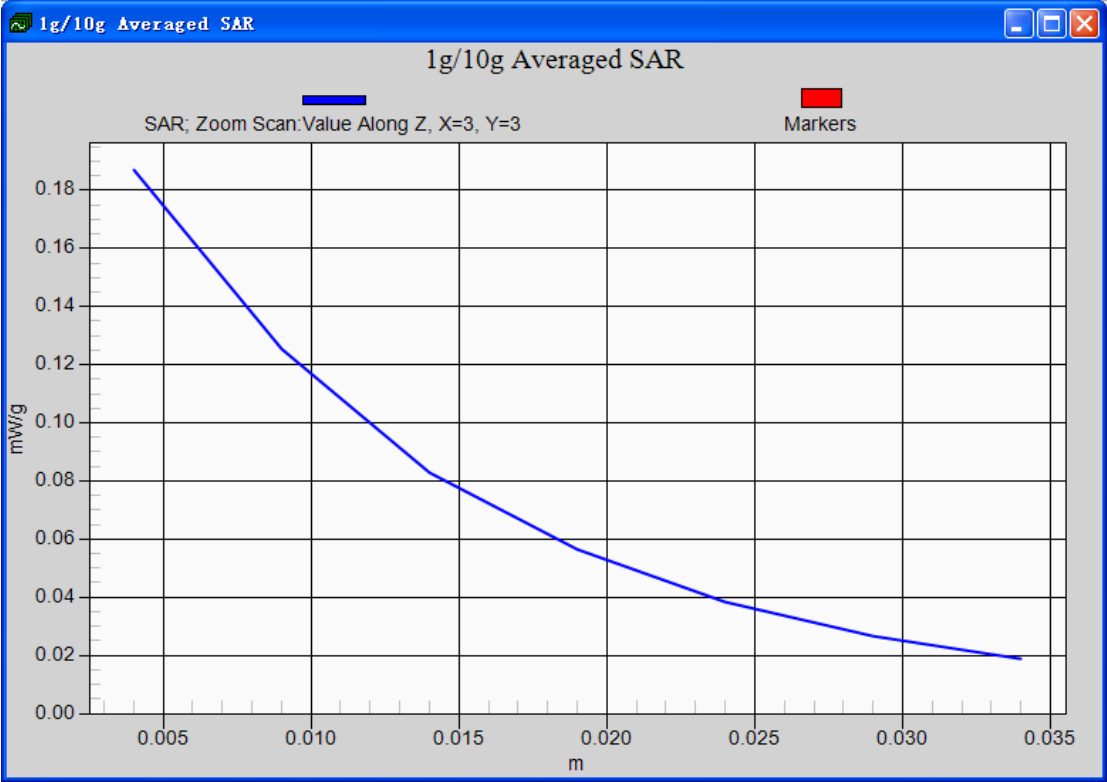


E173u-63 front side (2 timeslots) –GPRS 850 Channel 190

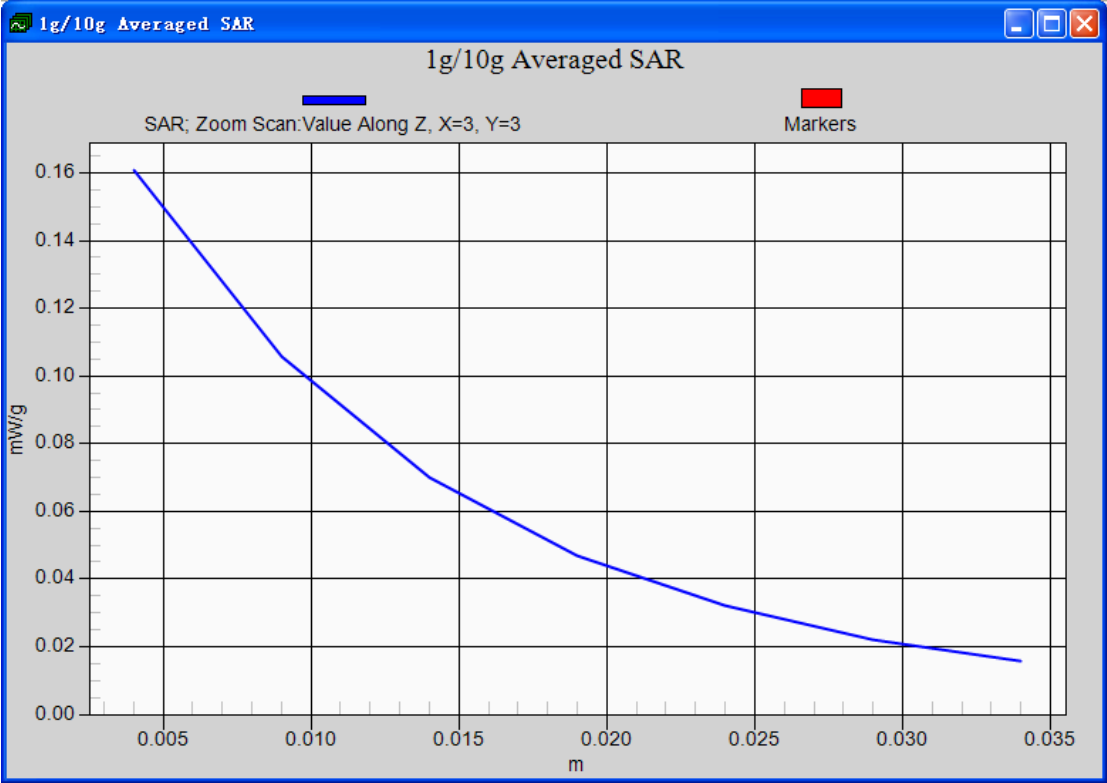




E173u-63 front side (3 timeslots) –GPRS 850 Channel 190

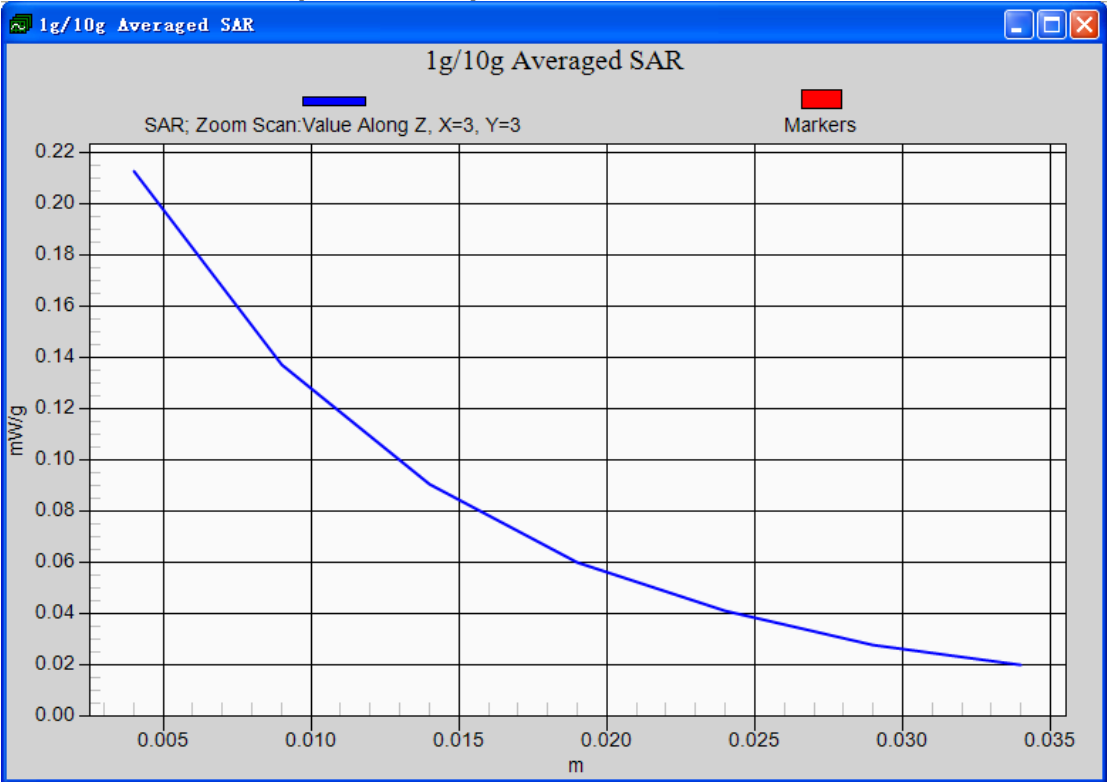


E173u-63 front side (4 timeslots) –GPRS 850 Channel 190

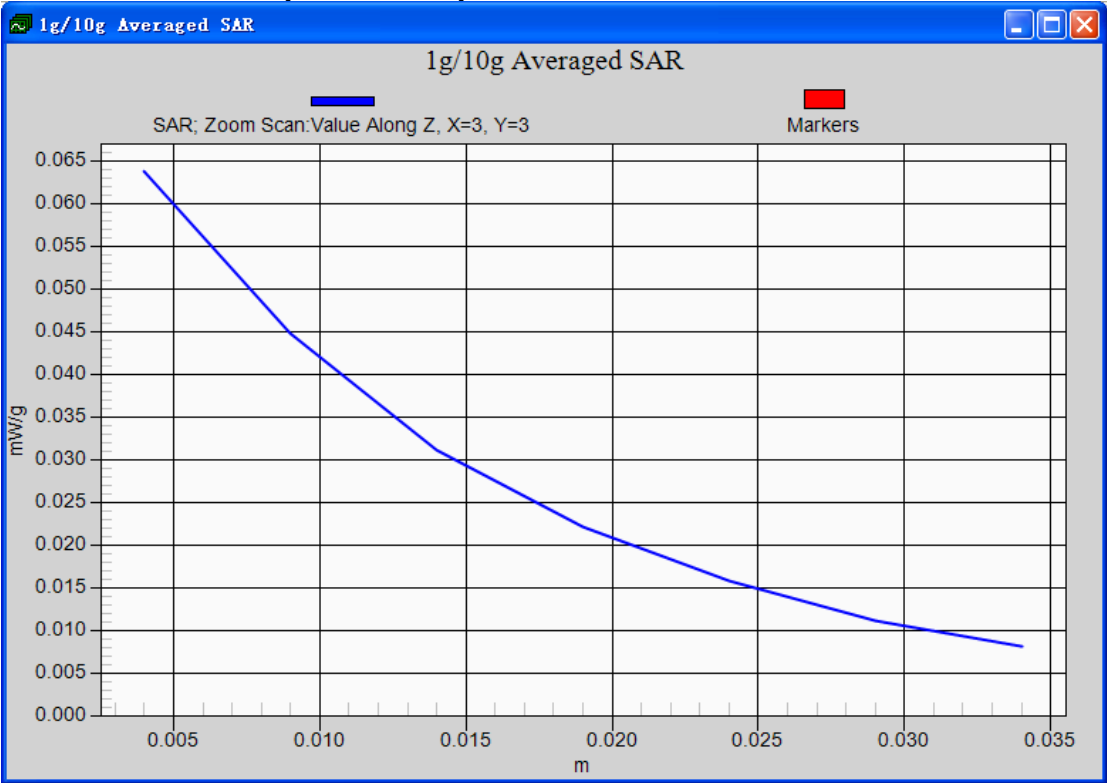




E173u-63 rear side (3 timeslots) –GPRS 850 Channel 190

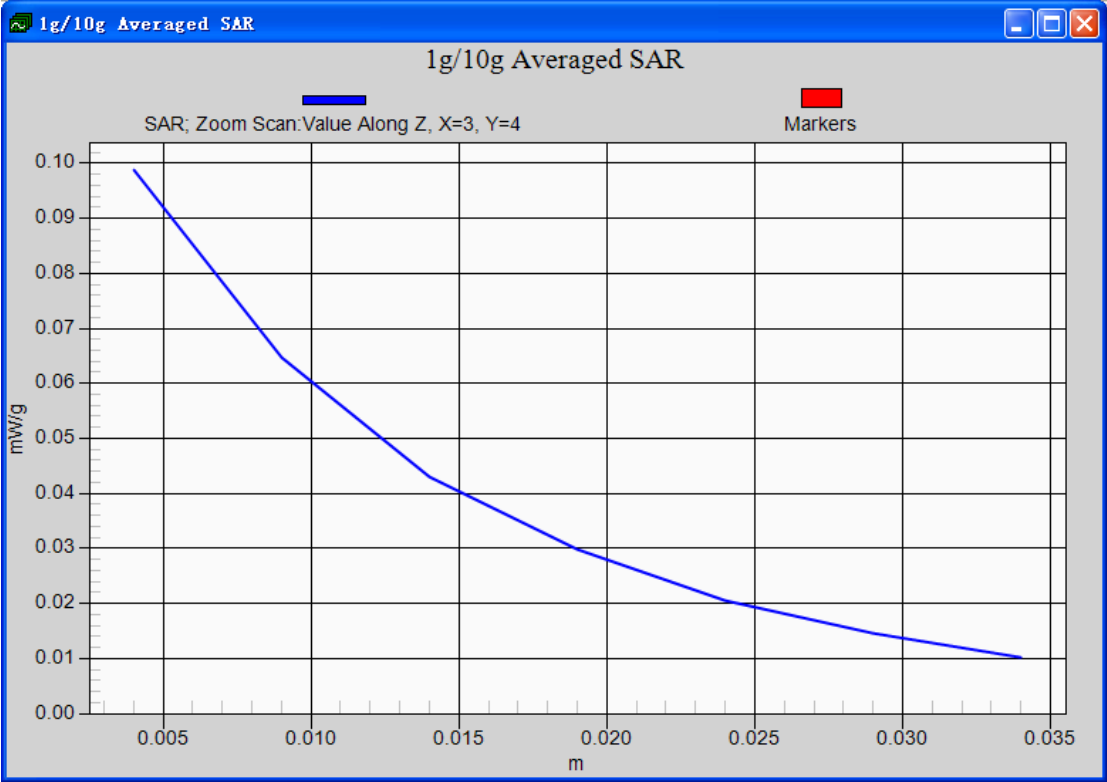


E173u-63 left side (3 timeslots) –GPRS 850 Channel 190

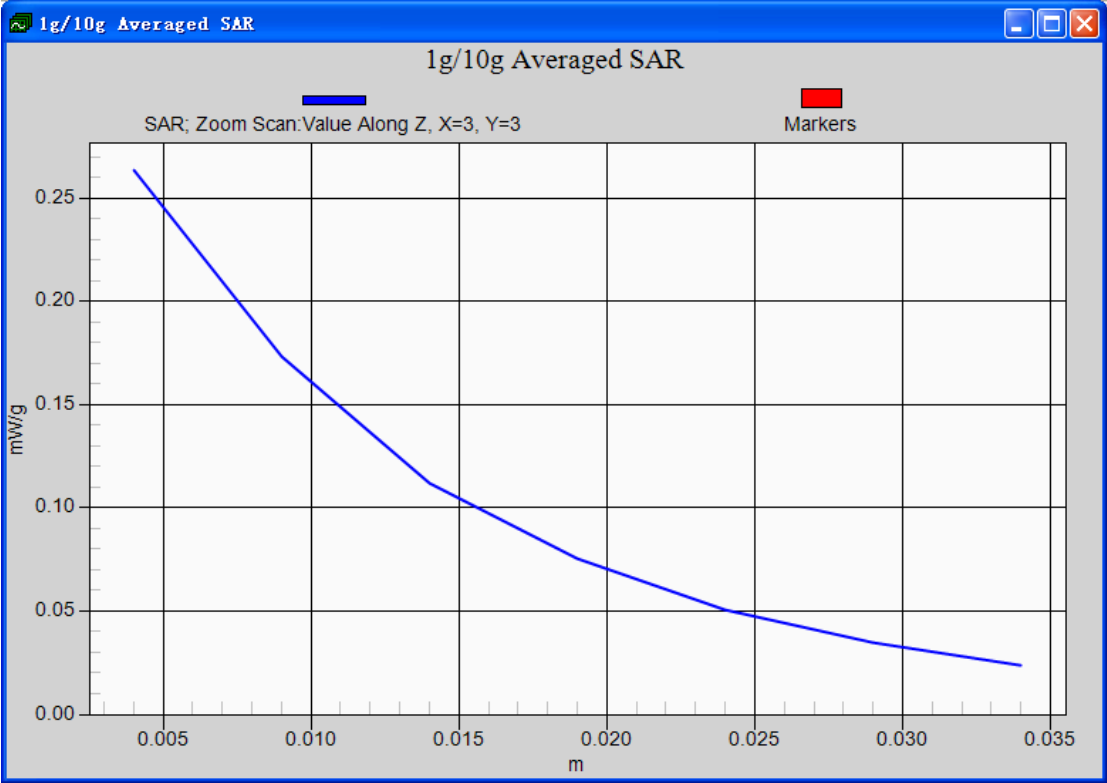




E173u-63 right side (3 timeslots) –GPRS 850 Channel 190

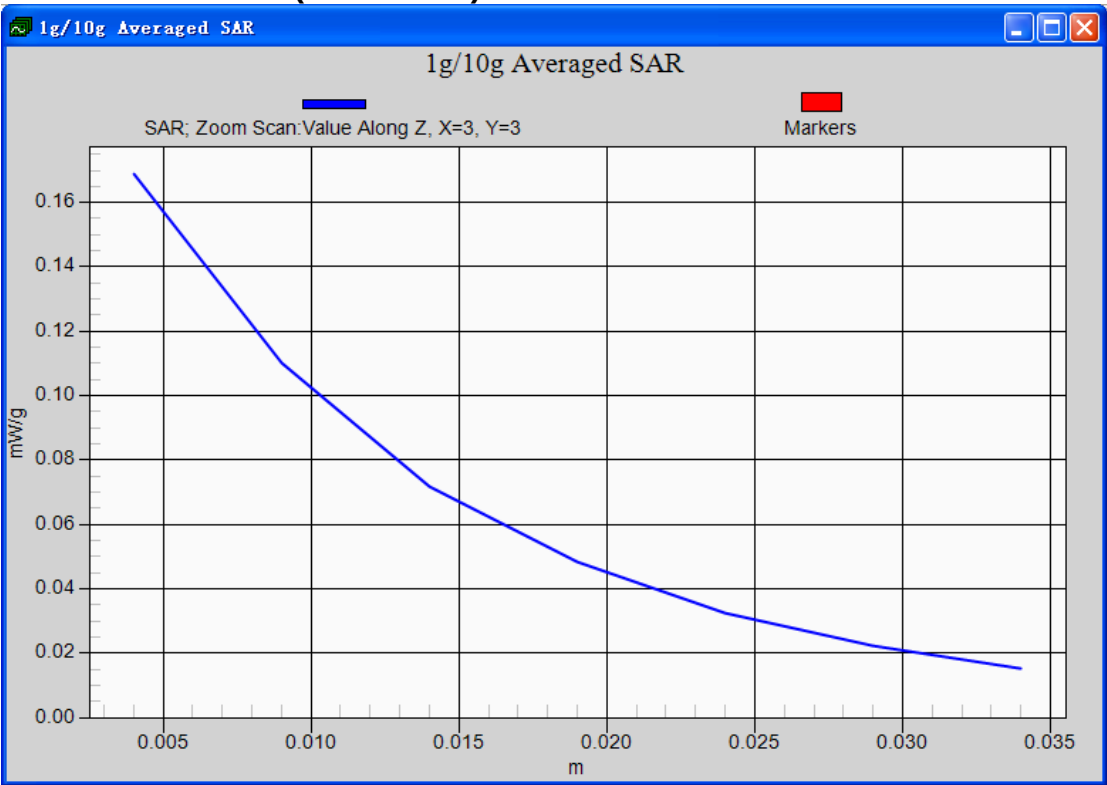


E173u-63 rear side (3 timeslots) –GPRS 850 Channel 251

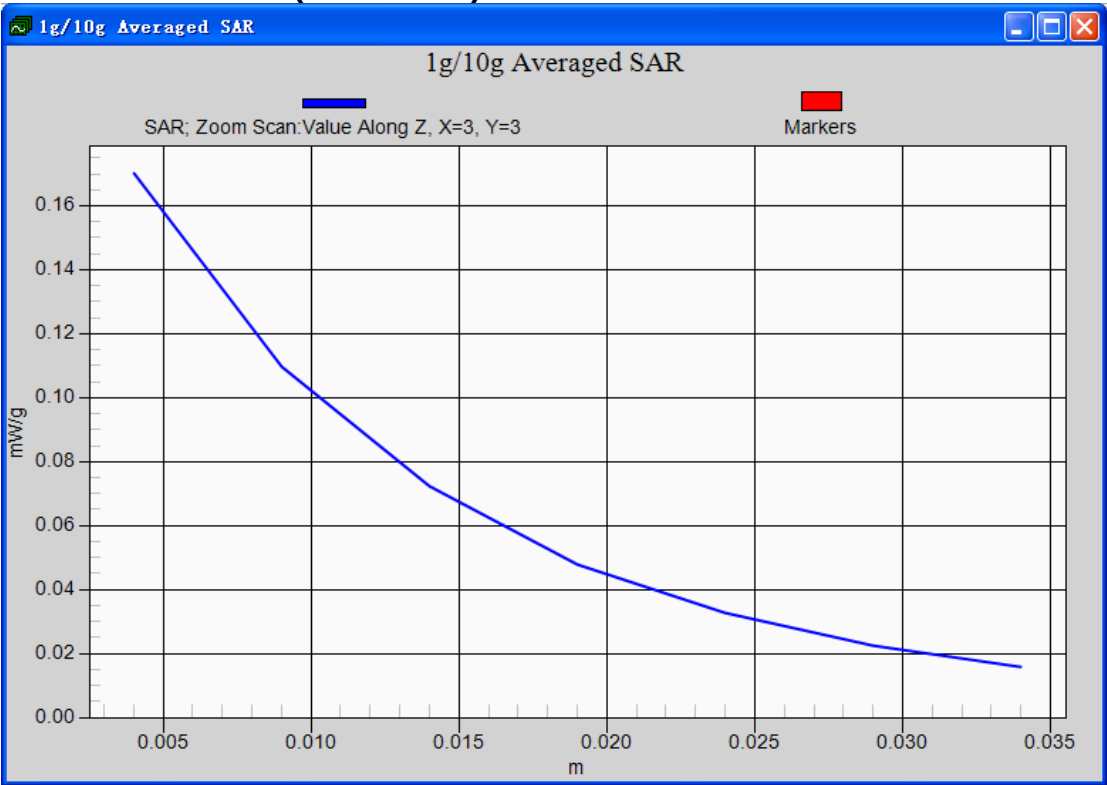




E173u-63 rear side (3 timeslots) –GPRS 850 Channel 128

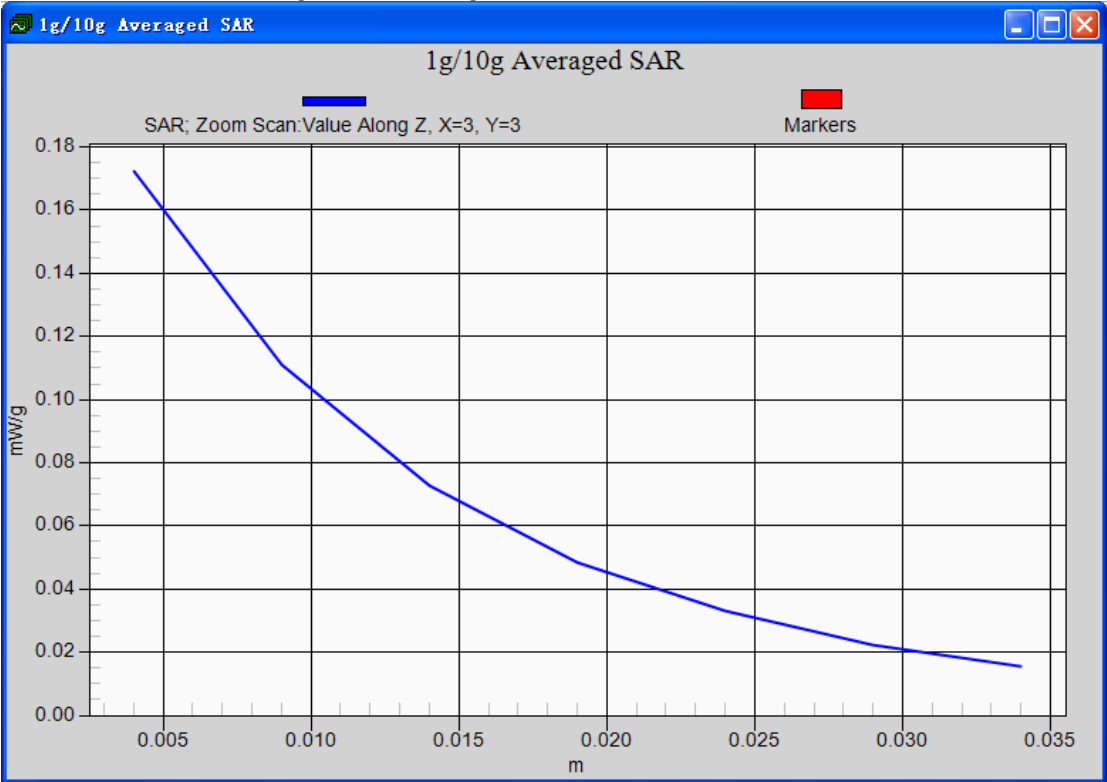


E173u-63 rear side (1 timeslots) –EGPRS 850 Channel 190

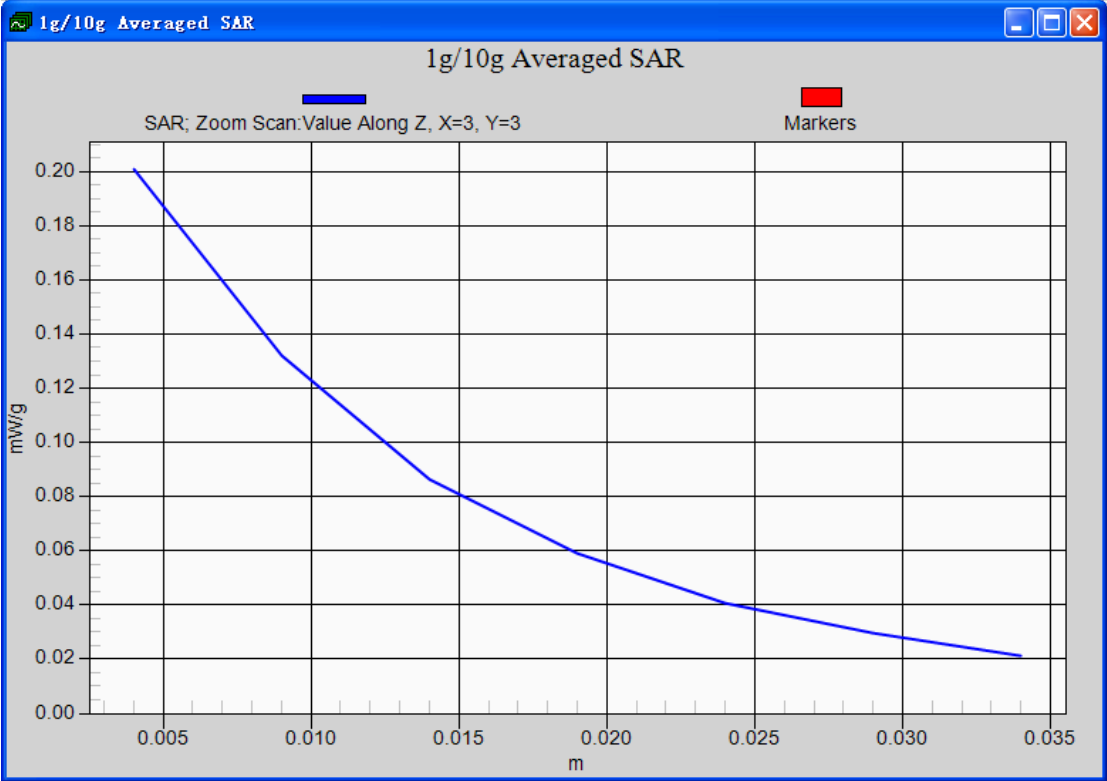




E173u-63 rear side (2 timeslots) –EGPRS 850 Channel 190

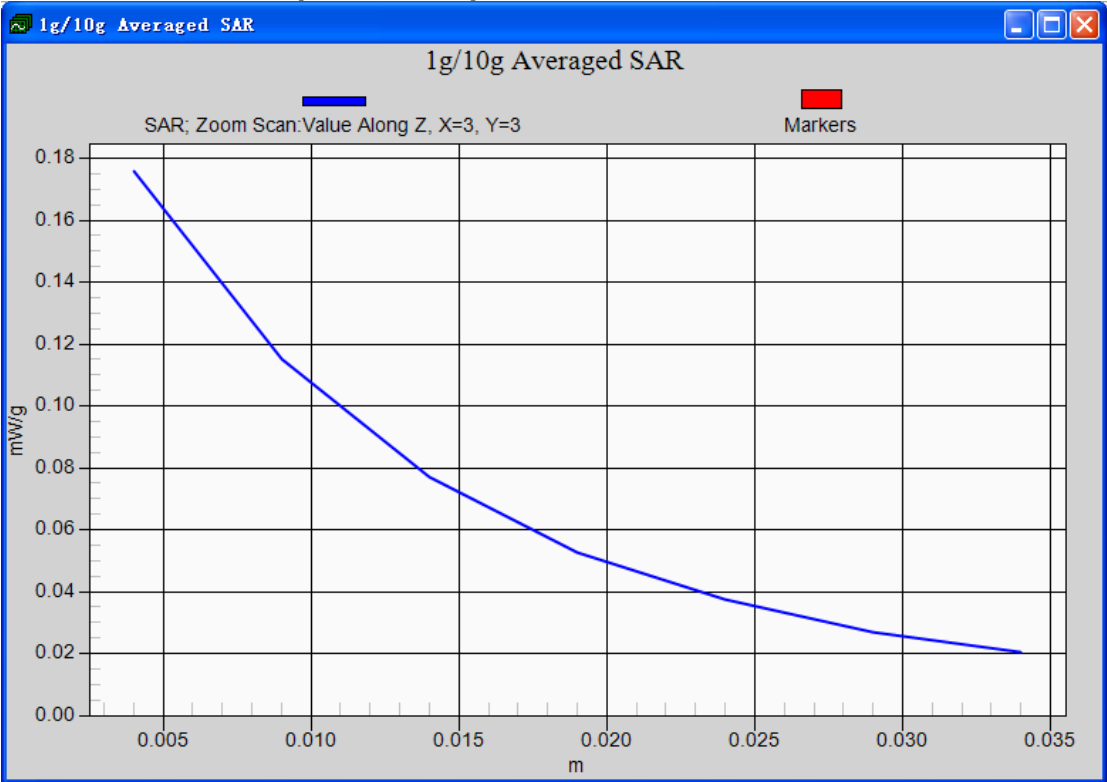


E173u-63 rear side (3 timeslots) –EGPRS 850 Channel 190

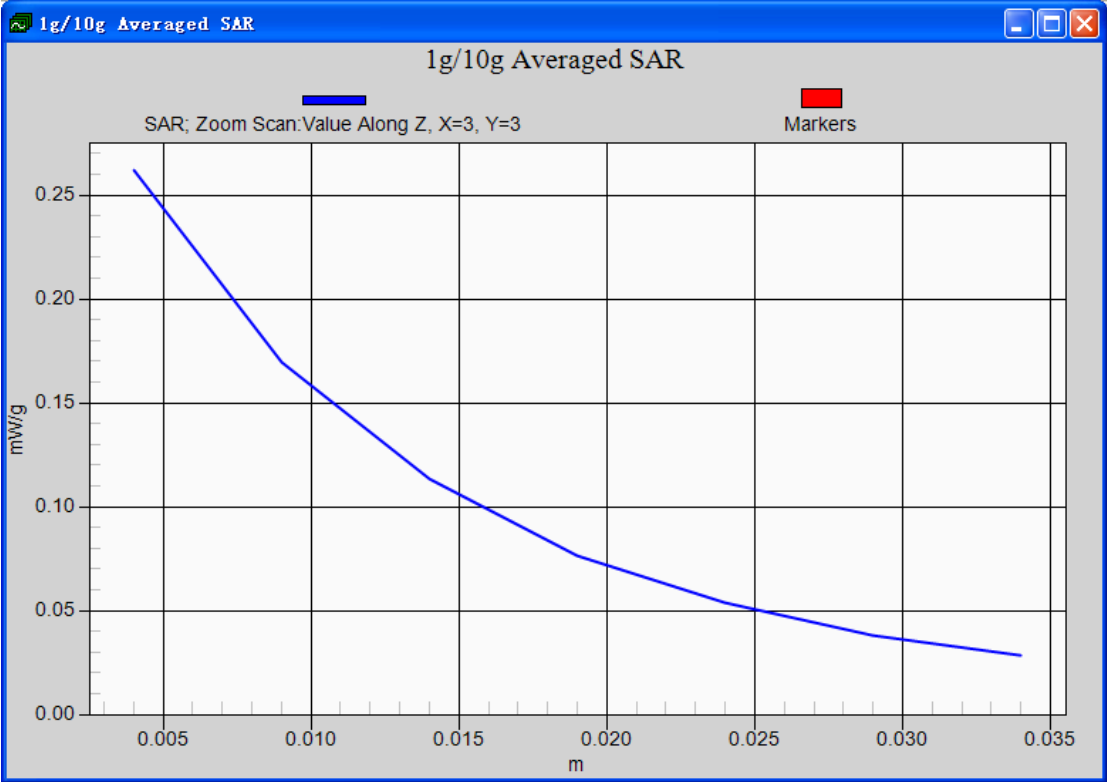




E173u-63 rear side (4 timeslots) –EGPRS 850 Channel 190

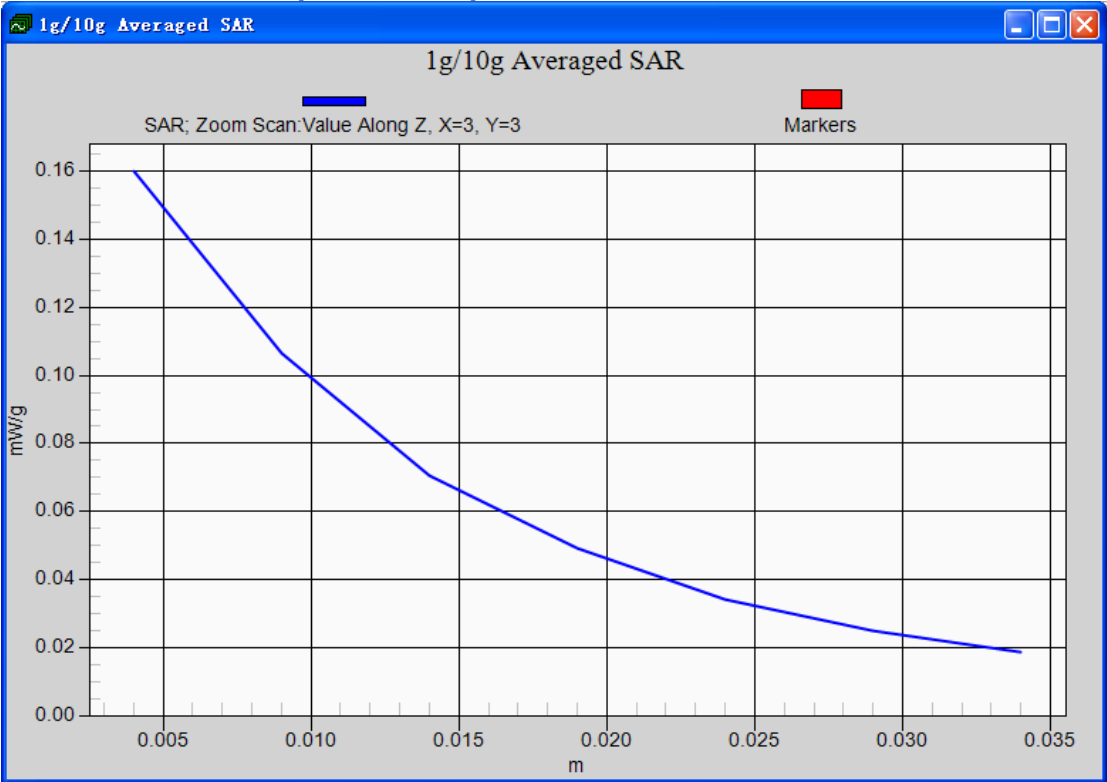


E173u-63 rear side (3 timeslots) –EGPRS 850 Channel 251



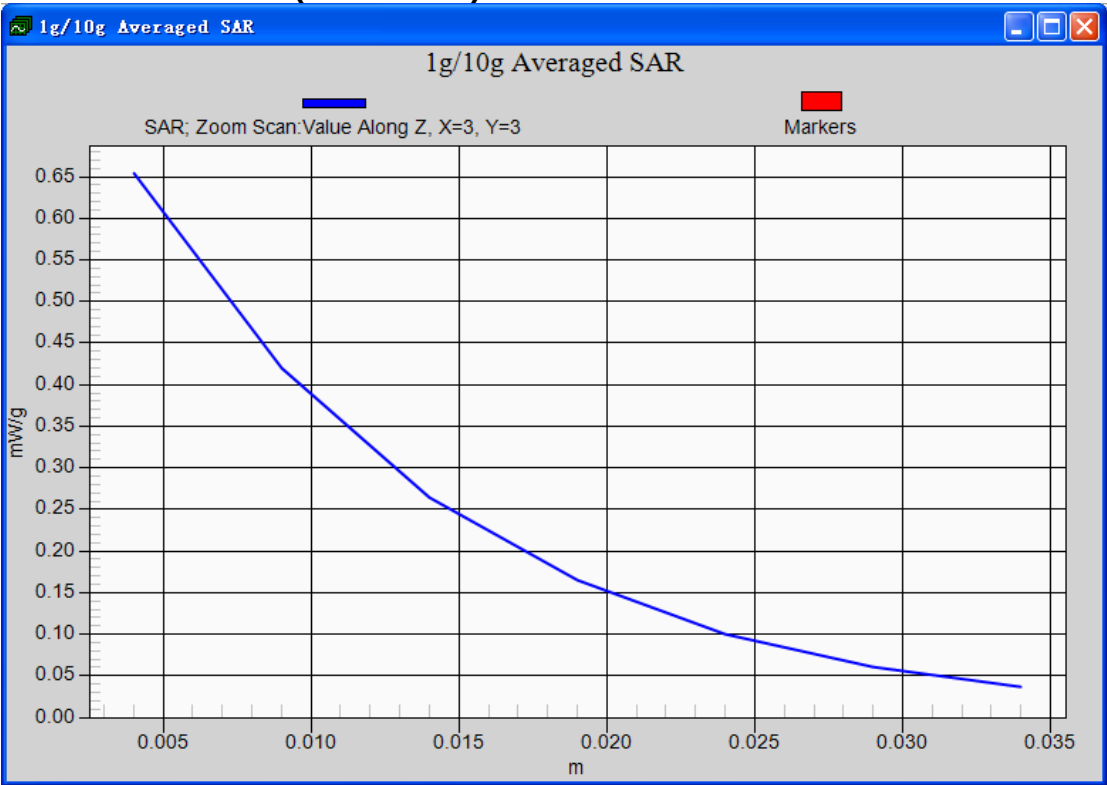


E173u-63 rear side (3 timeslots) –EGPRS 850 Channel 128



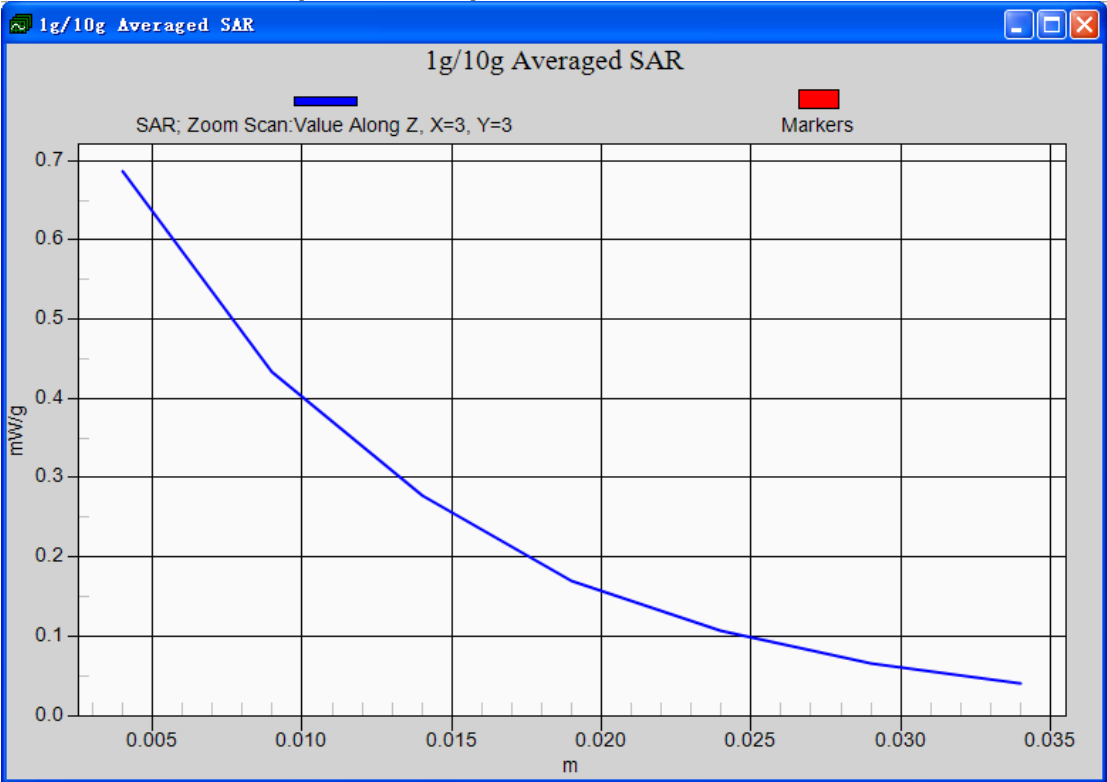
GSM 1900

E173u-63 rear side (1 timeslots) –GPRS 1900 Channel 661

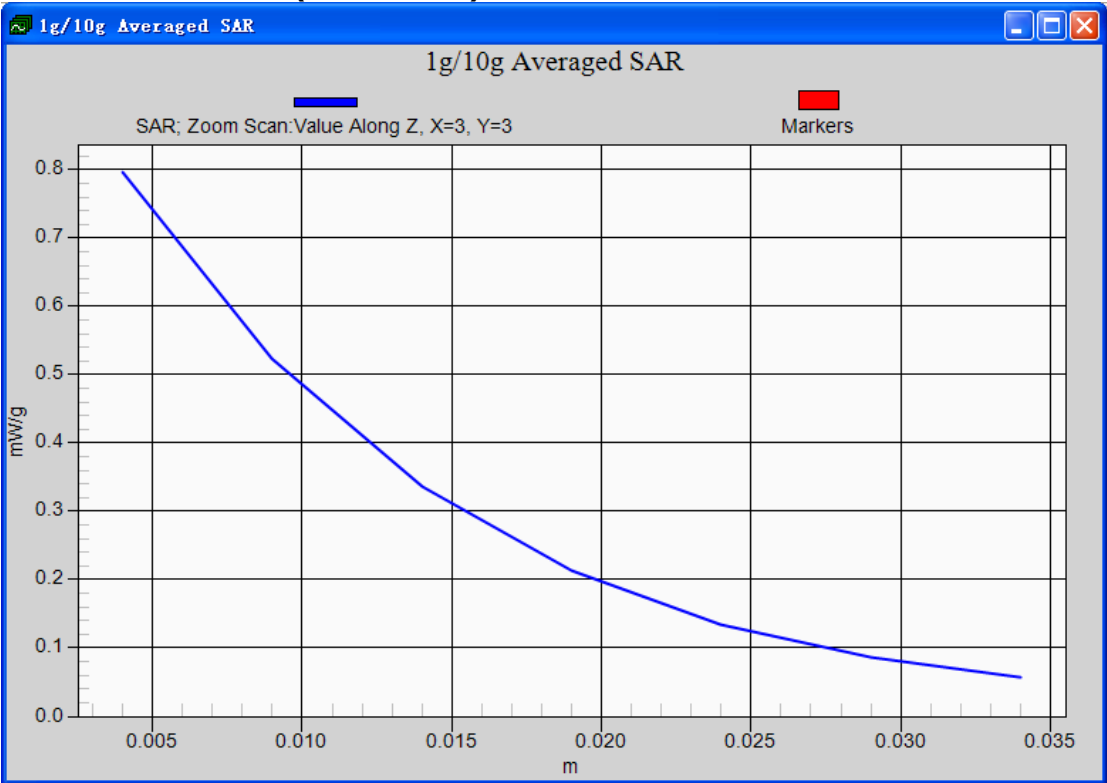




E173u-63 rear side (2 timeslots) –GPRS 1900 Channel 661

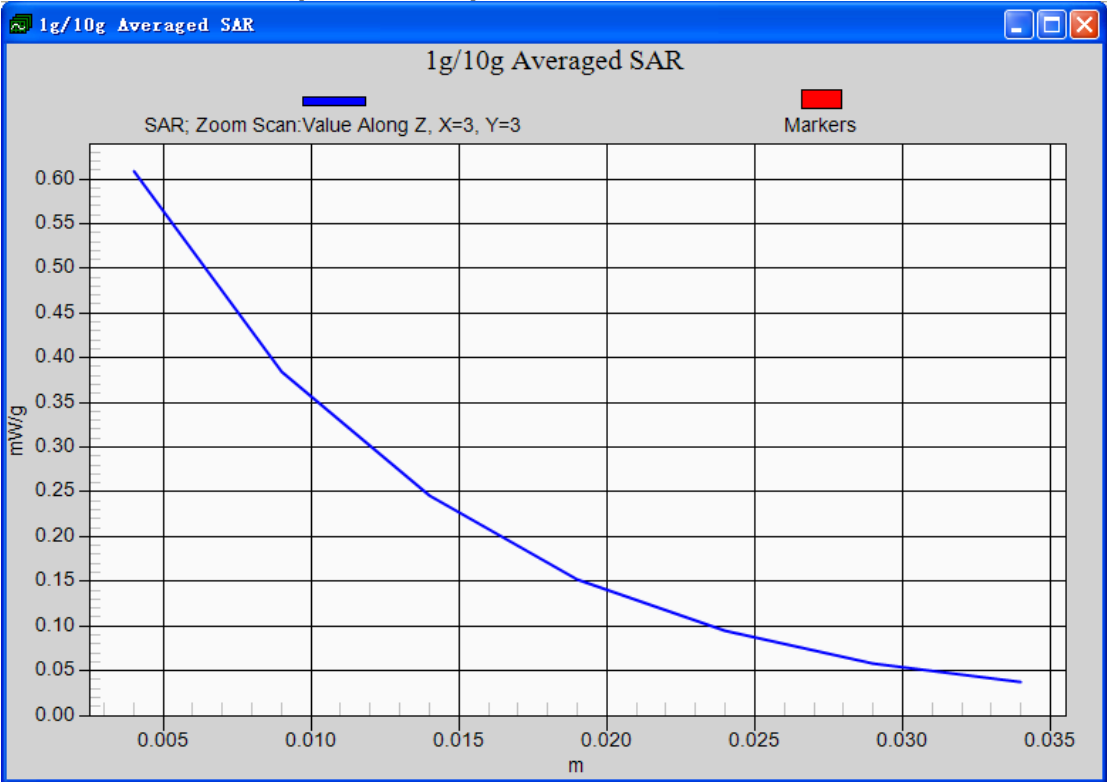


E173u-63 rear side (3 timeslots) –GPRS 1900 Channel 661

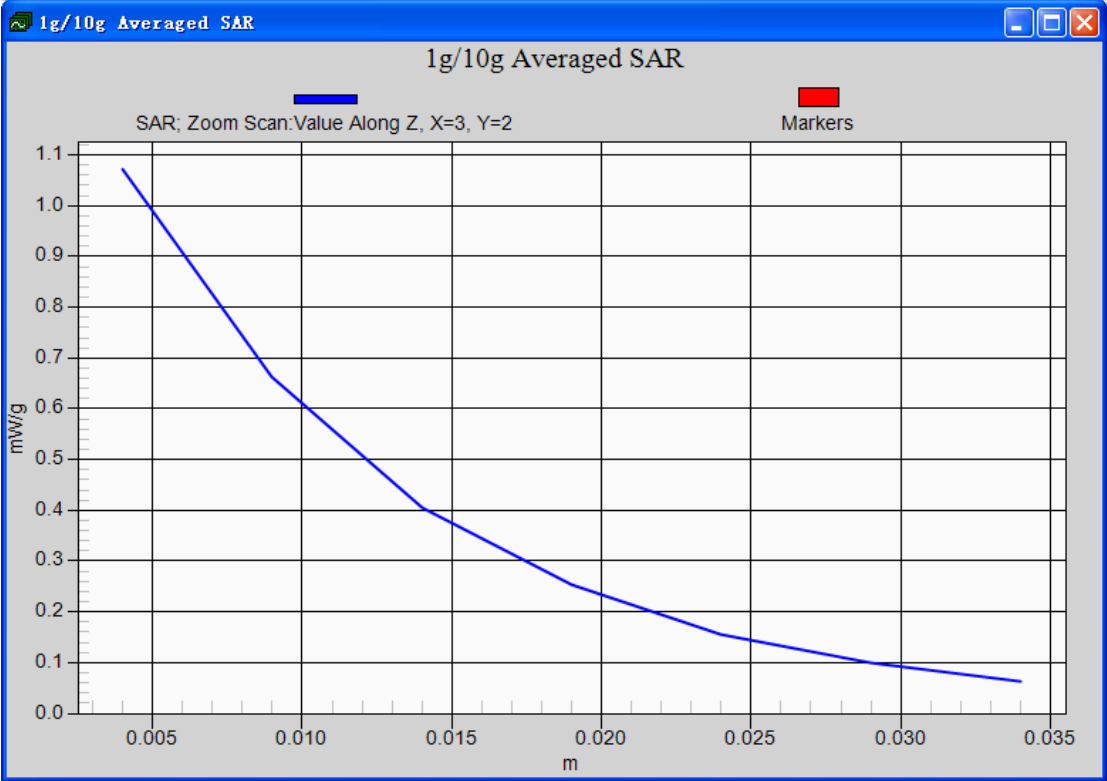




E173u-63 rear side (4 timeslots) –GPRS 1900 Channel 661

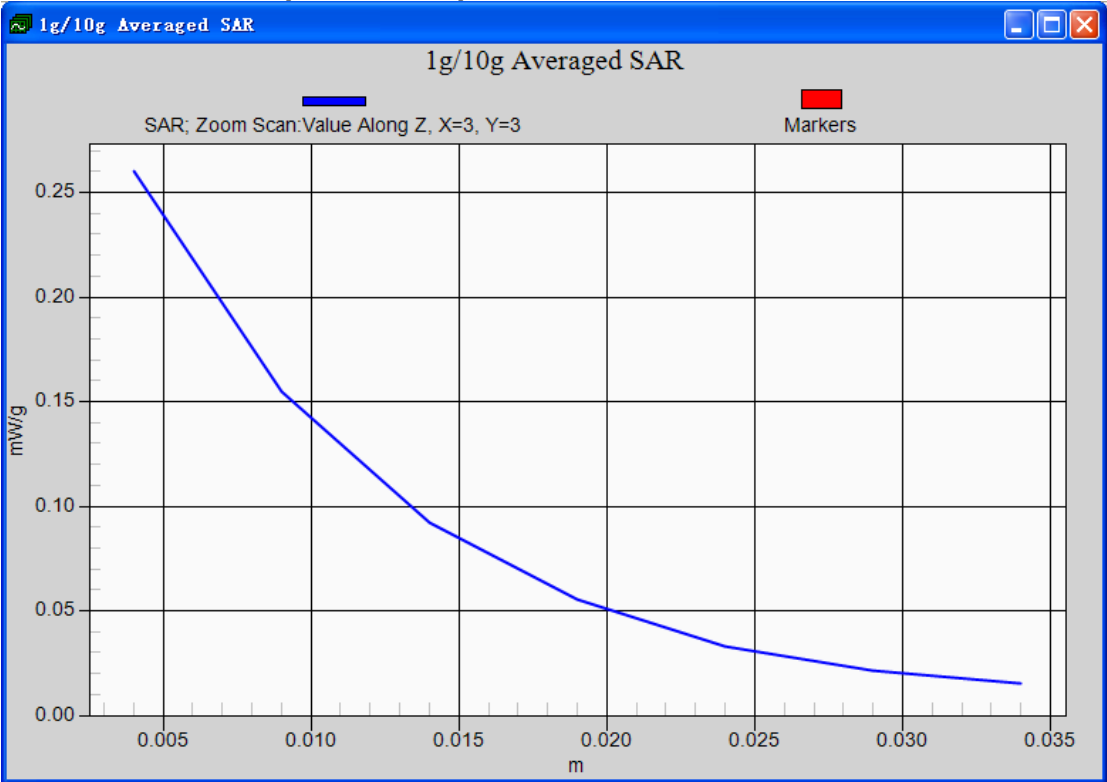


E173u-63 front side (3 timeslots) –GPRS 1900 Channel 661

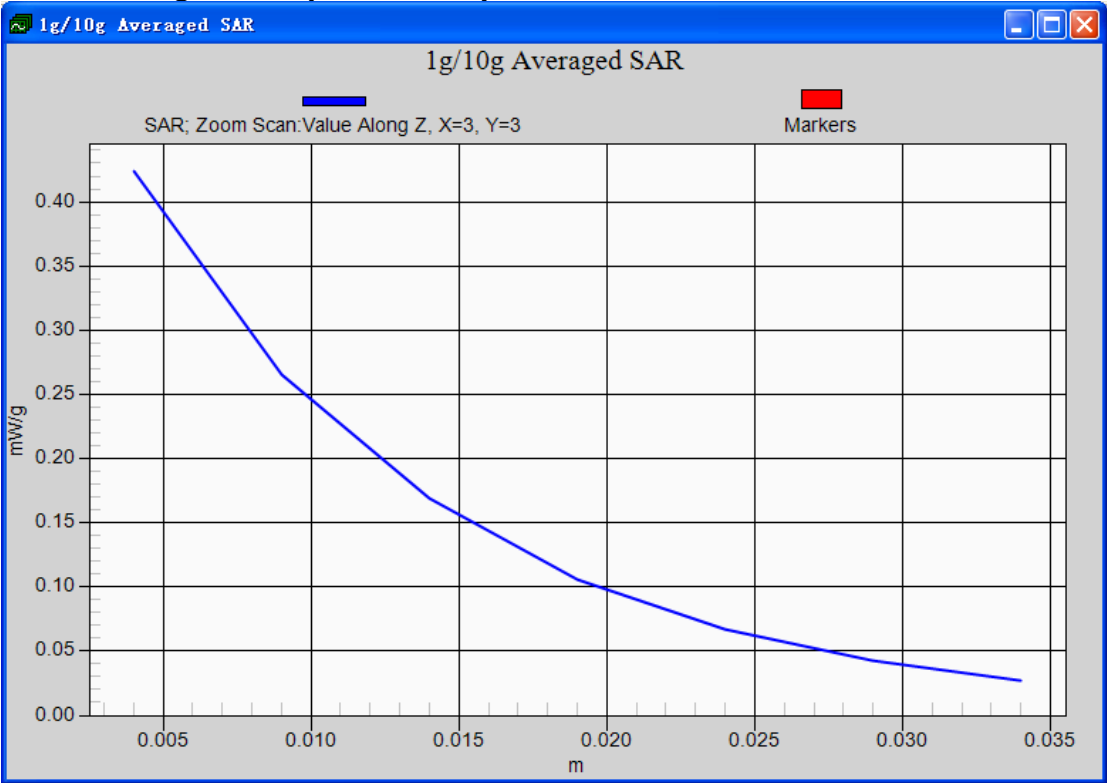




E173u-63 left side (3 timeslots) –GPRS 1900 Channel 661

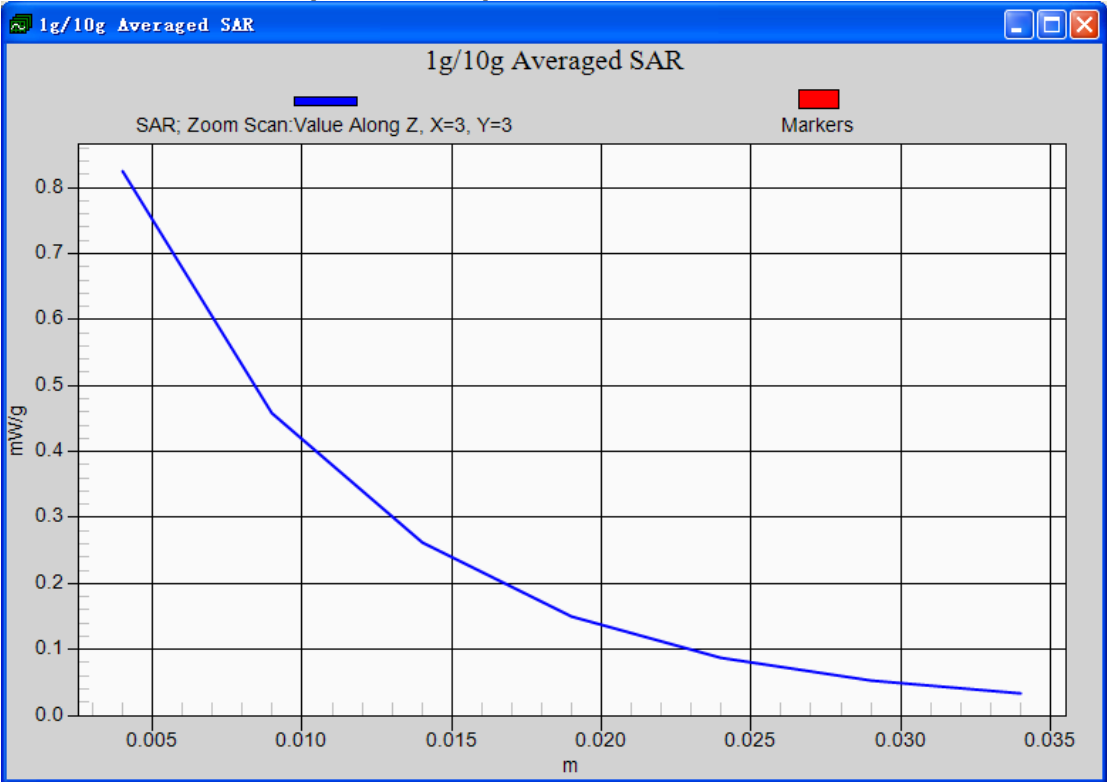


E173u-63 right side (3 timeslots) –GPRS 1900 Channel 661

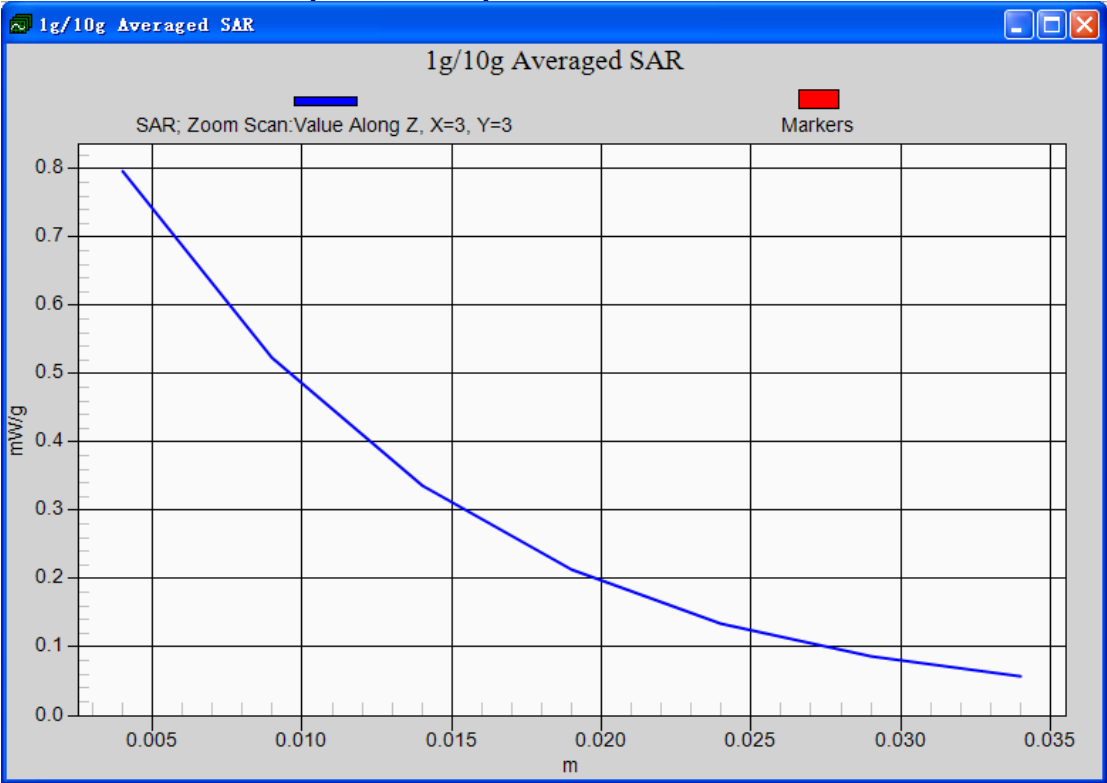




E173u-63 front side (3 timeslots) –GPRS 1900 Channel 810

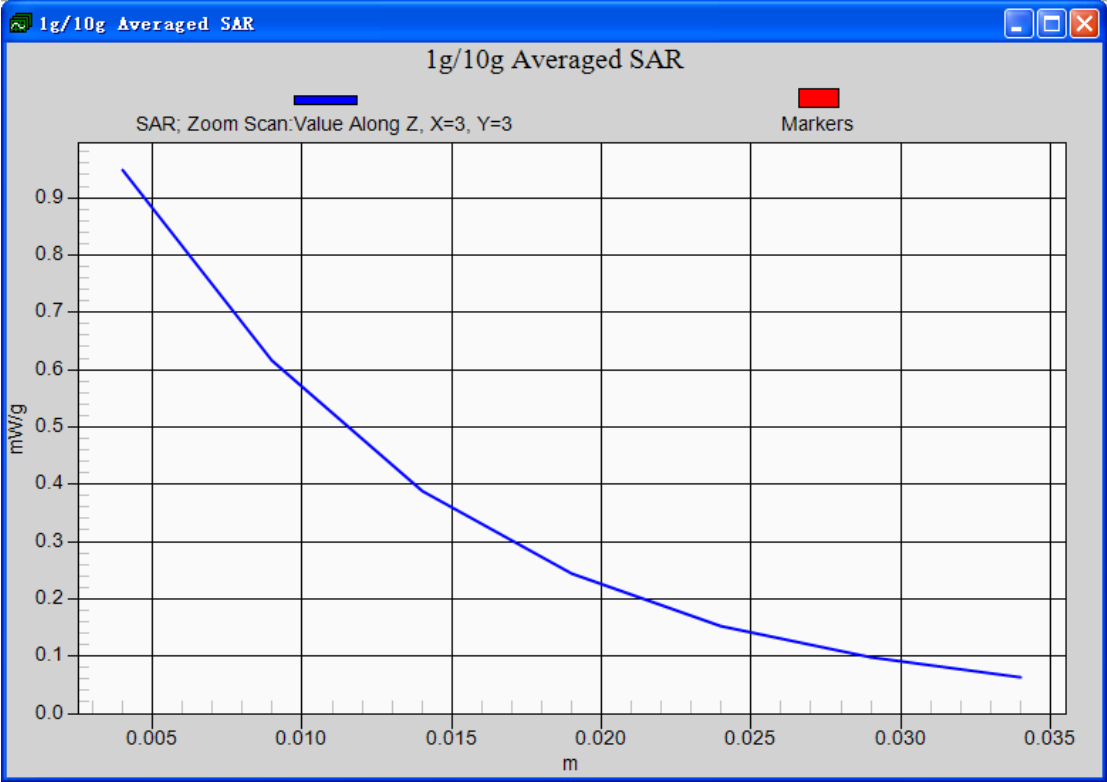


E173u-63 front side (3 timeslots) –GPRS 1900 Channel 512

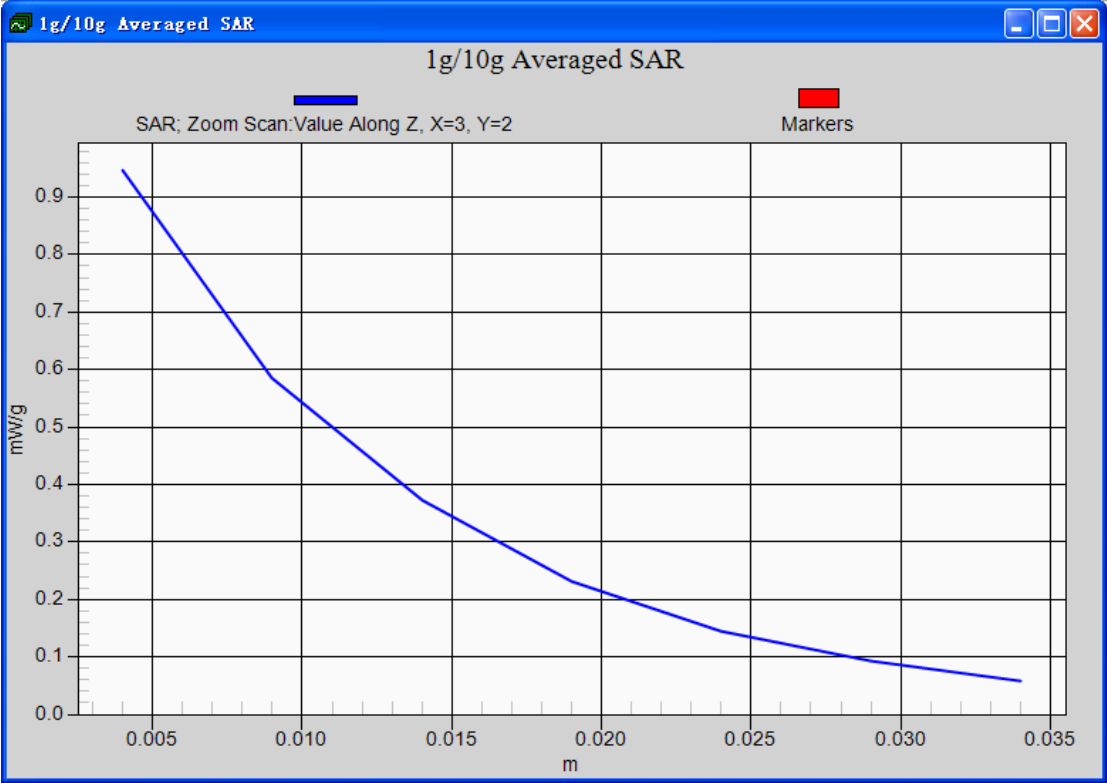




E173u-63 front side (1 timeslots) –EGPRS 1900 Channel 661

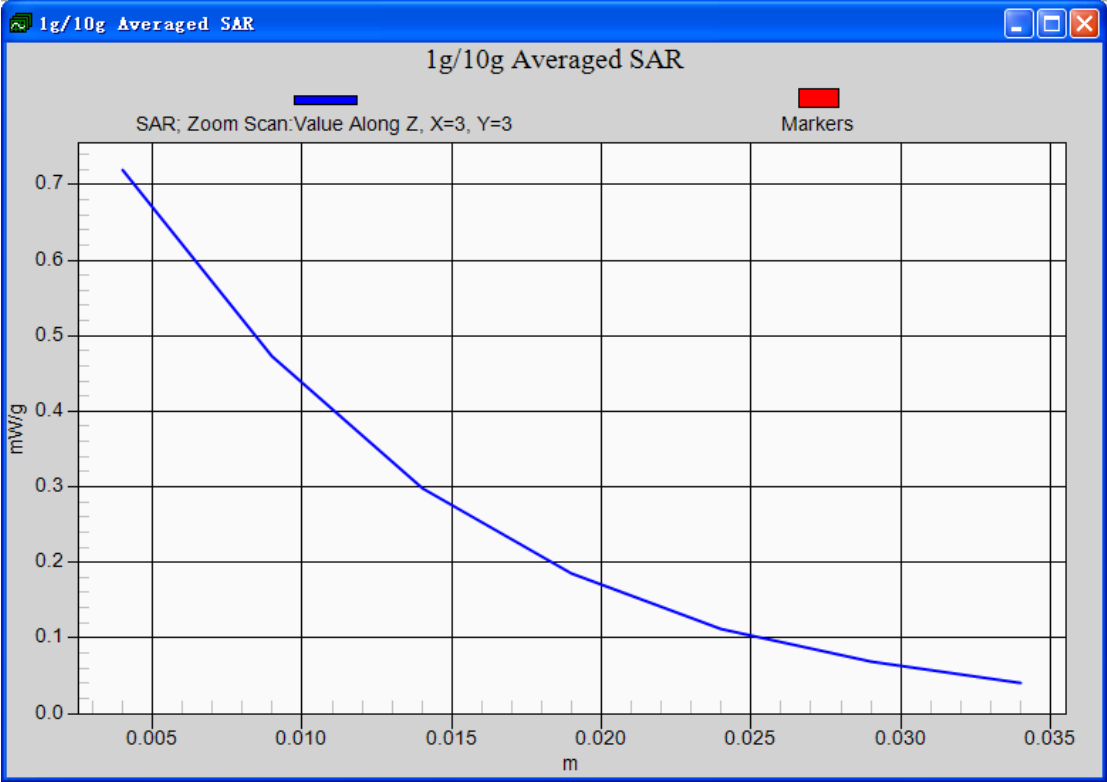


E173u-63 front side (2 timeslots) –EGPRS 1900 Channel 661

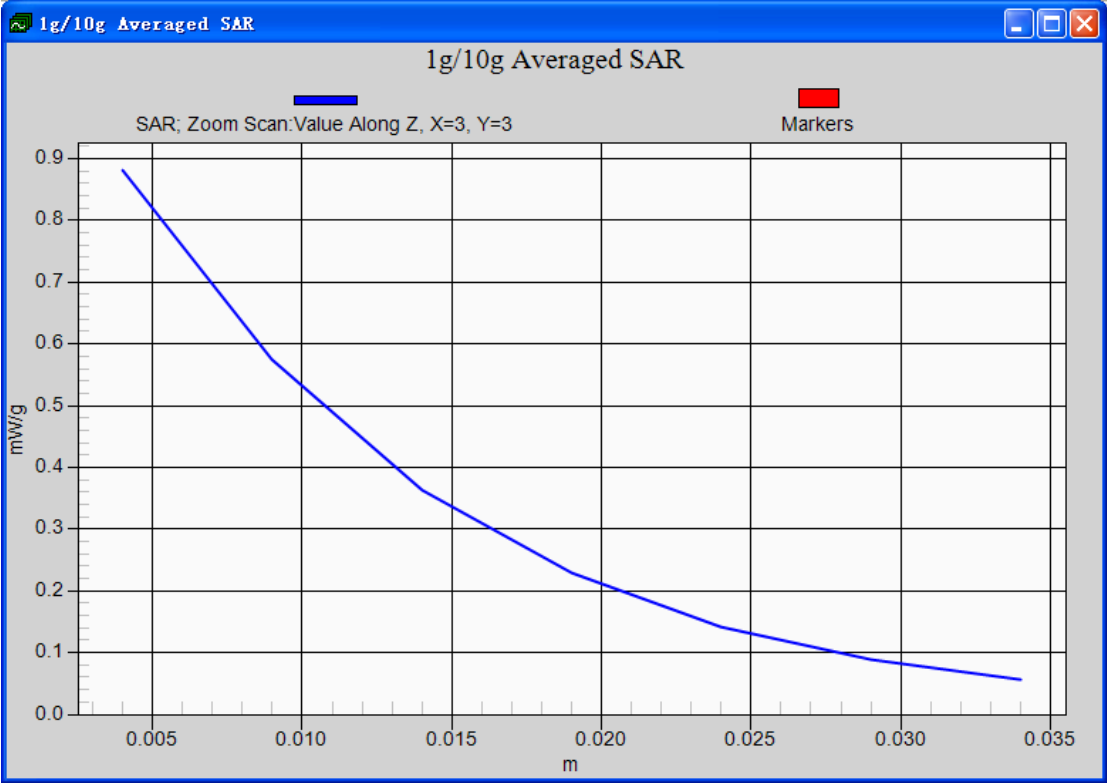




E173u-63 front side (3 timeslots) –EGPRS 1900 Channel 661

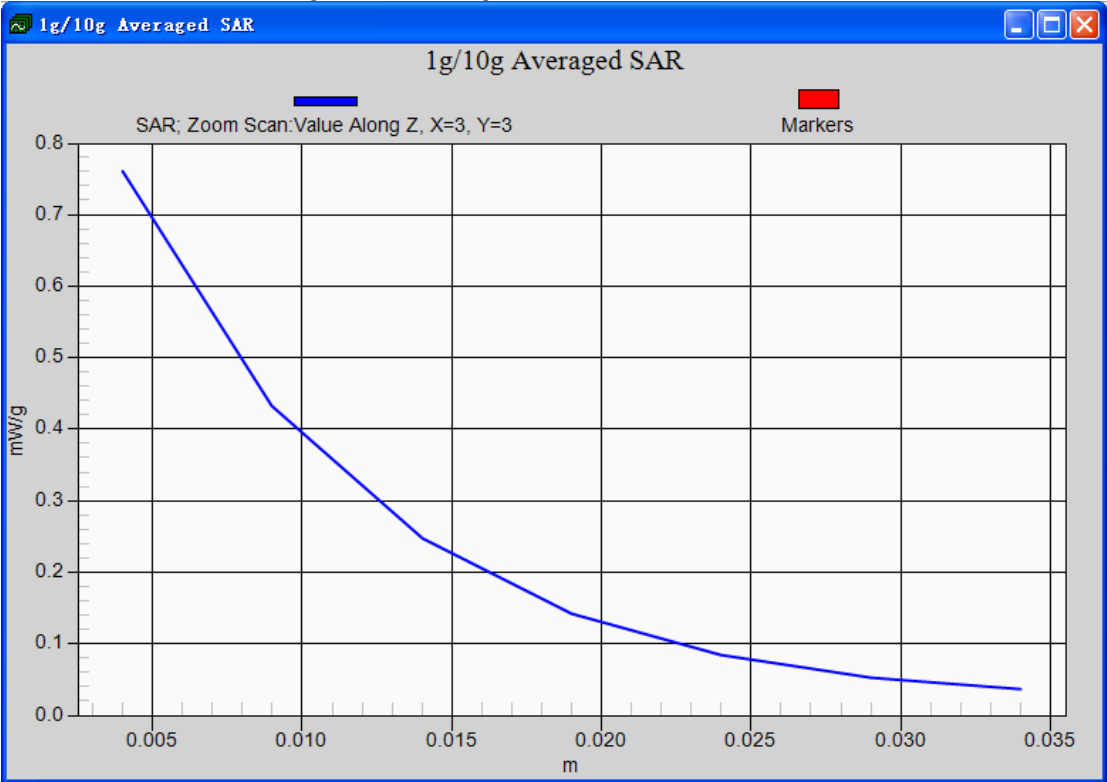


E173u-63 front side (4 timeslots) –EGPRS 1900 Channel 661

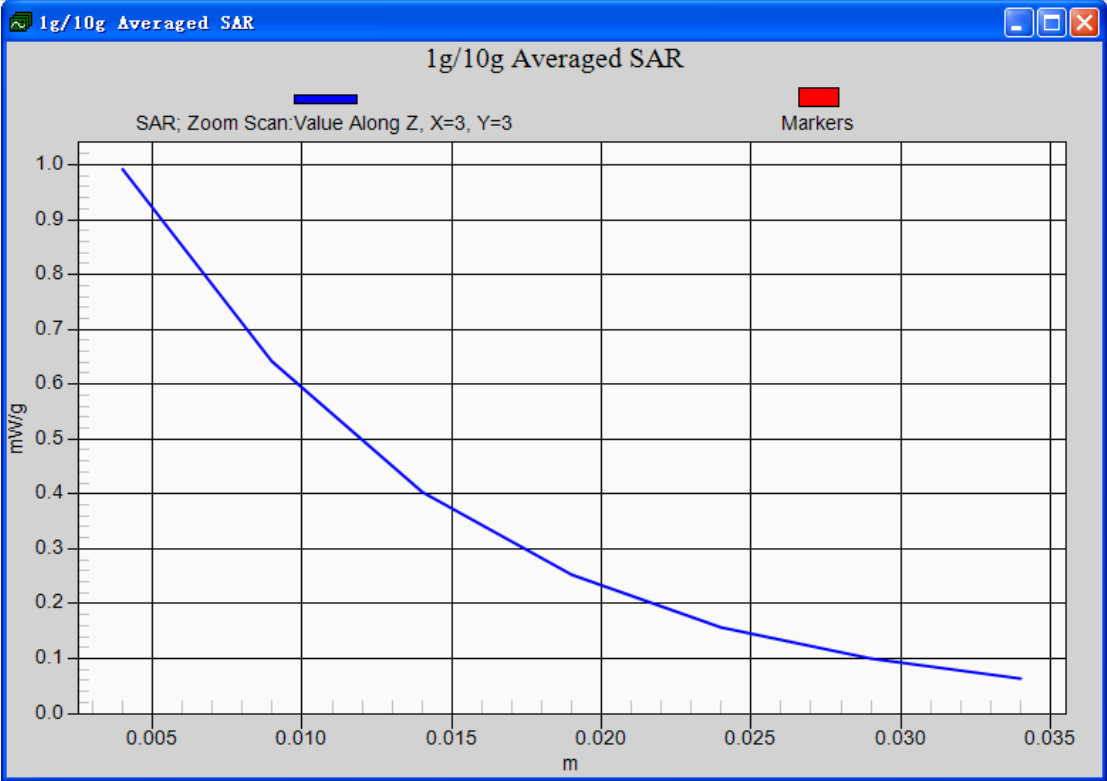




E173u-63 front side (3 timeslots) –EGPRS 1900 Channel 810

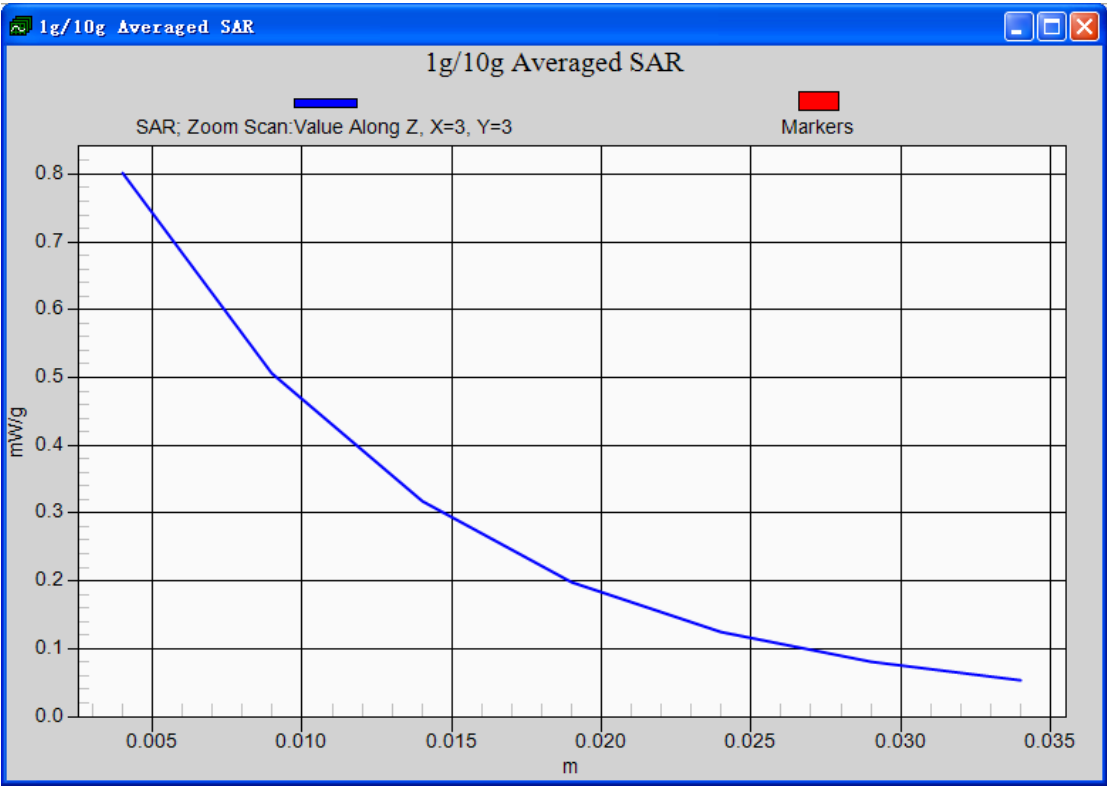


E173u-63 front side (3 timeslots) –EGPRS 1900 Channel 512

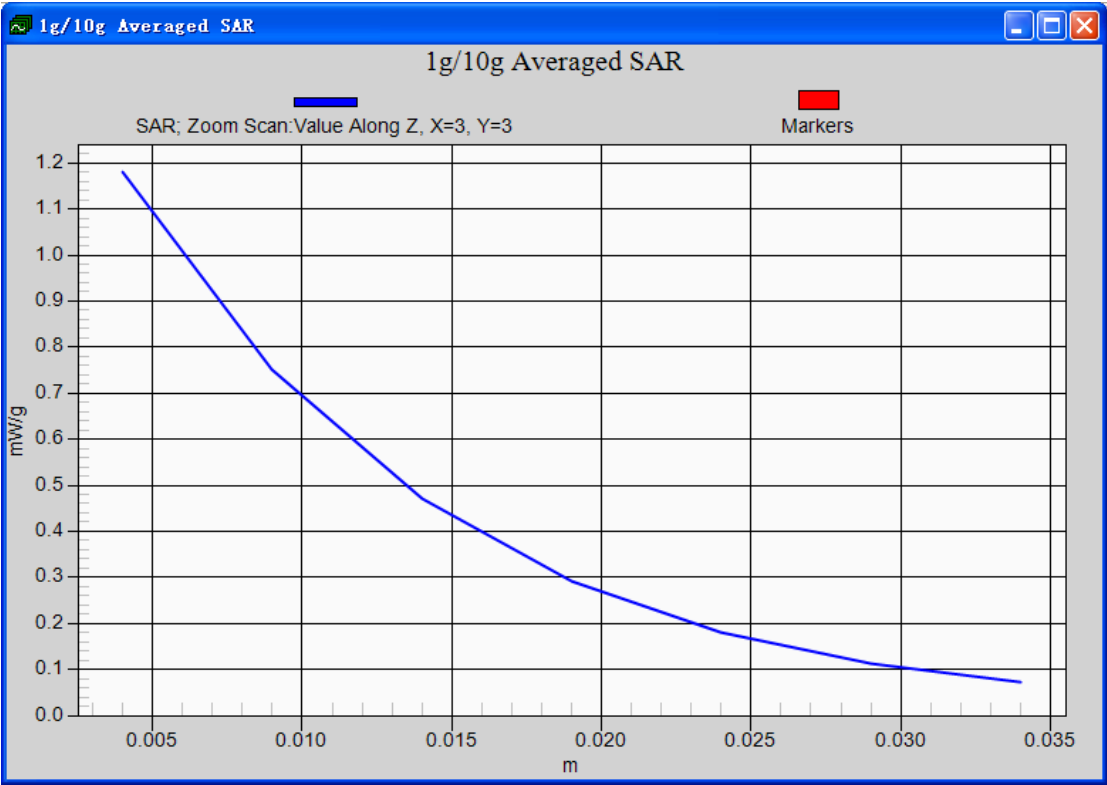




WCDMA Band II
E173u-63 front side –WCDMA Band II Channel 9400

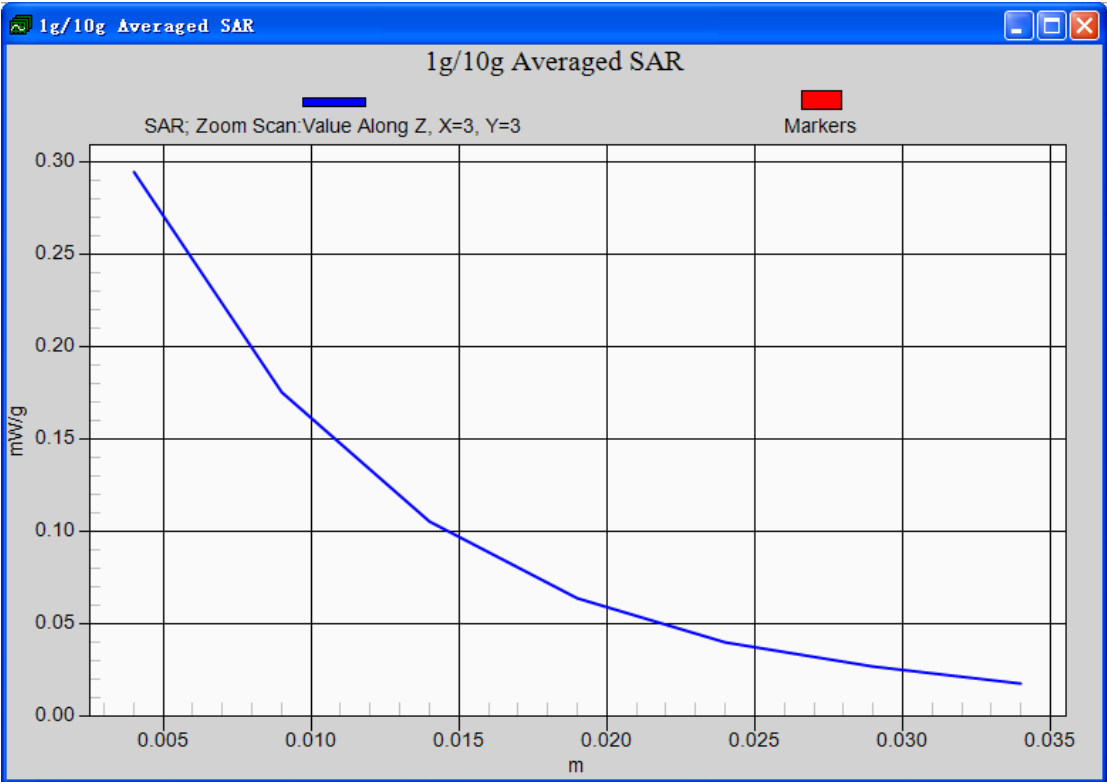


E173u-63 rear side –WCDMA Band II Channel 9400

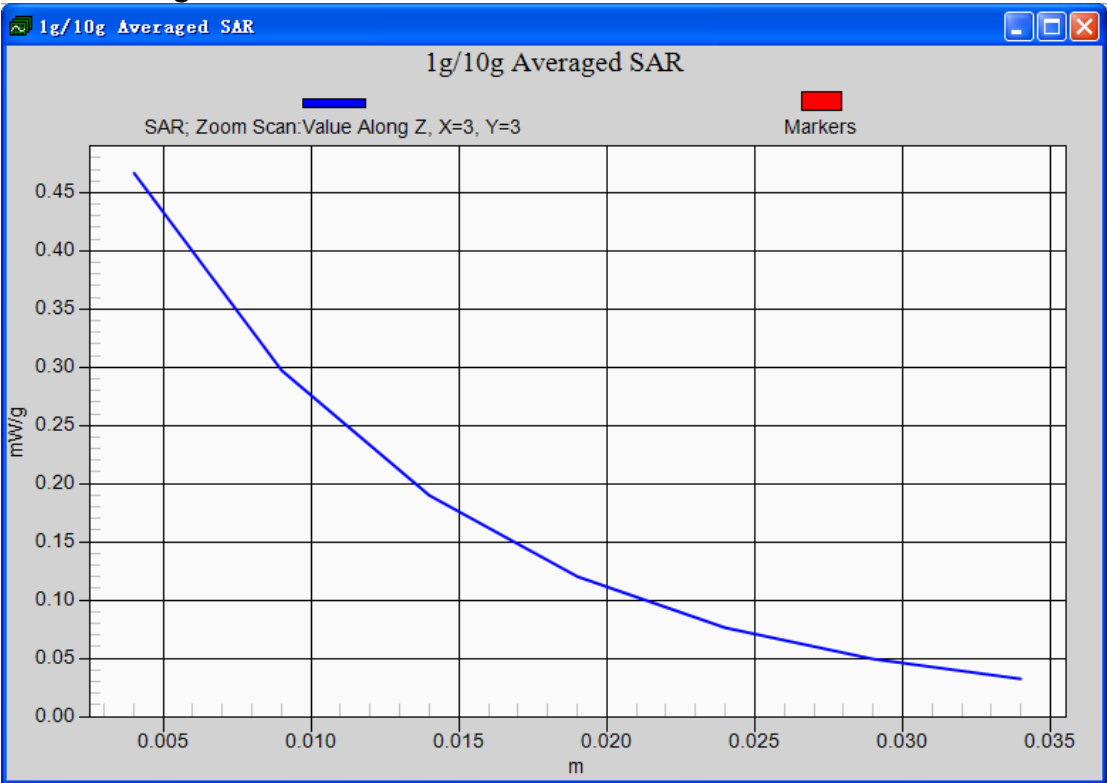




E173u-63 left side –WCDMA Band II Channel 9400

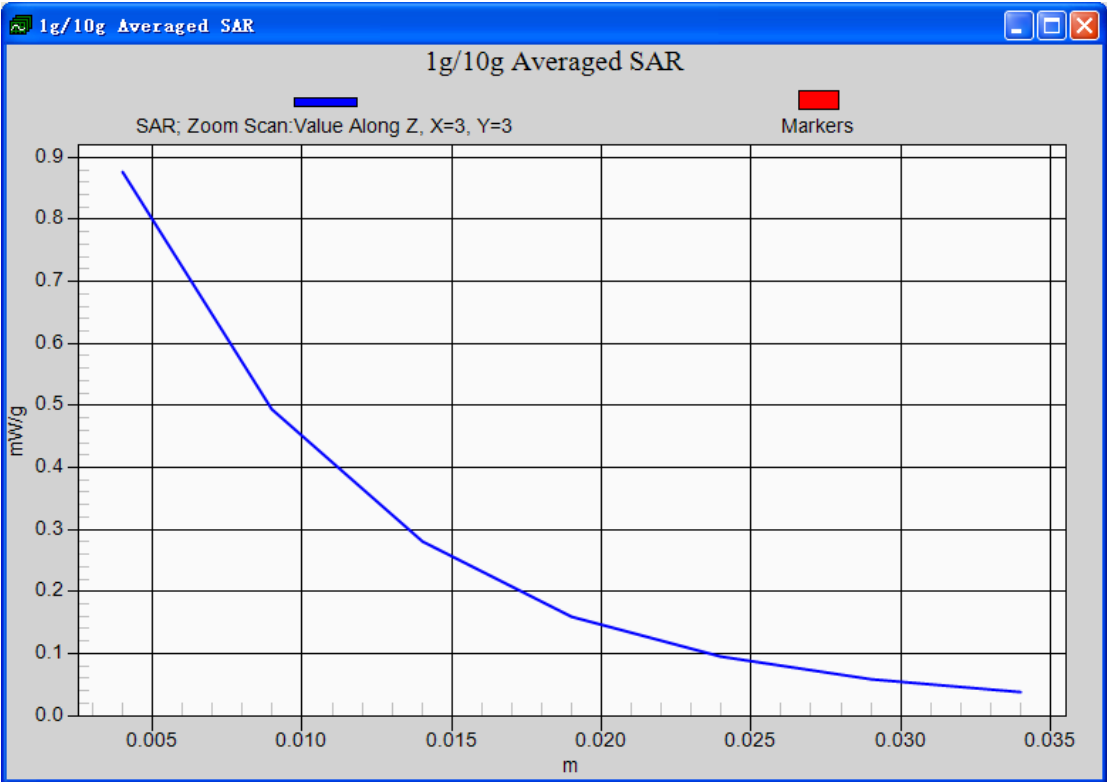


E173u-63 right side –WCDMA Band II Channel 9400

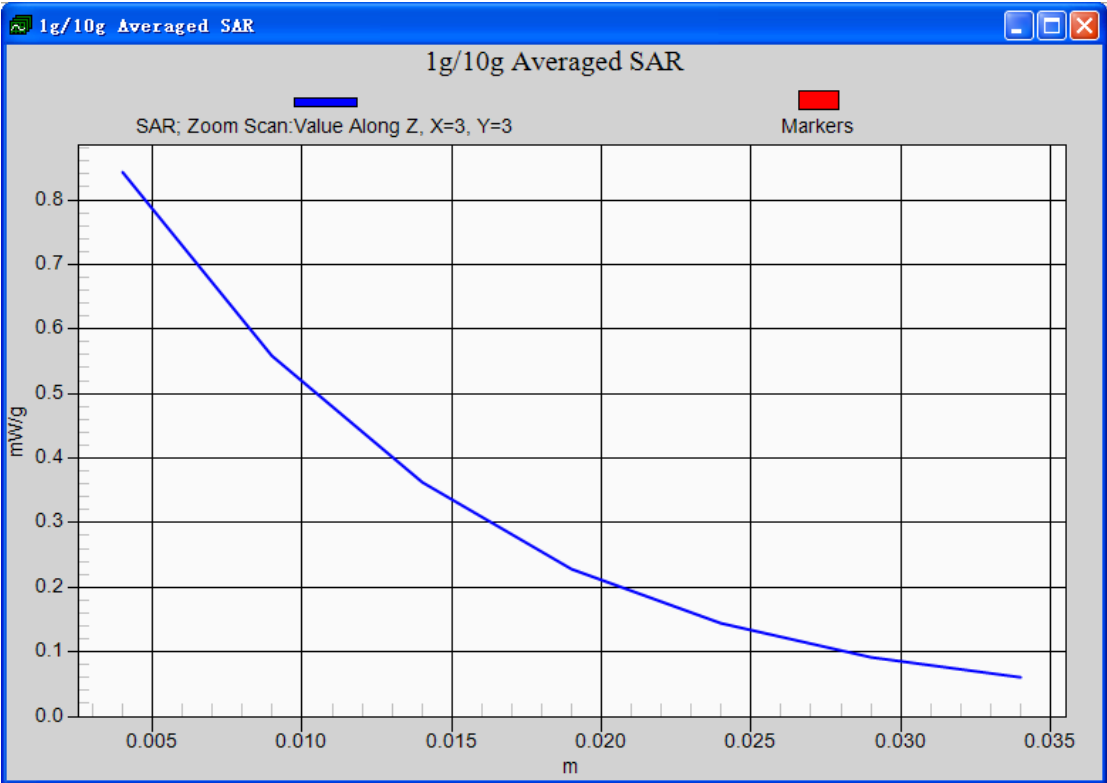




E173u-63 rear side –WCDMA Band II Channel 9538

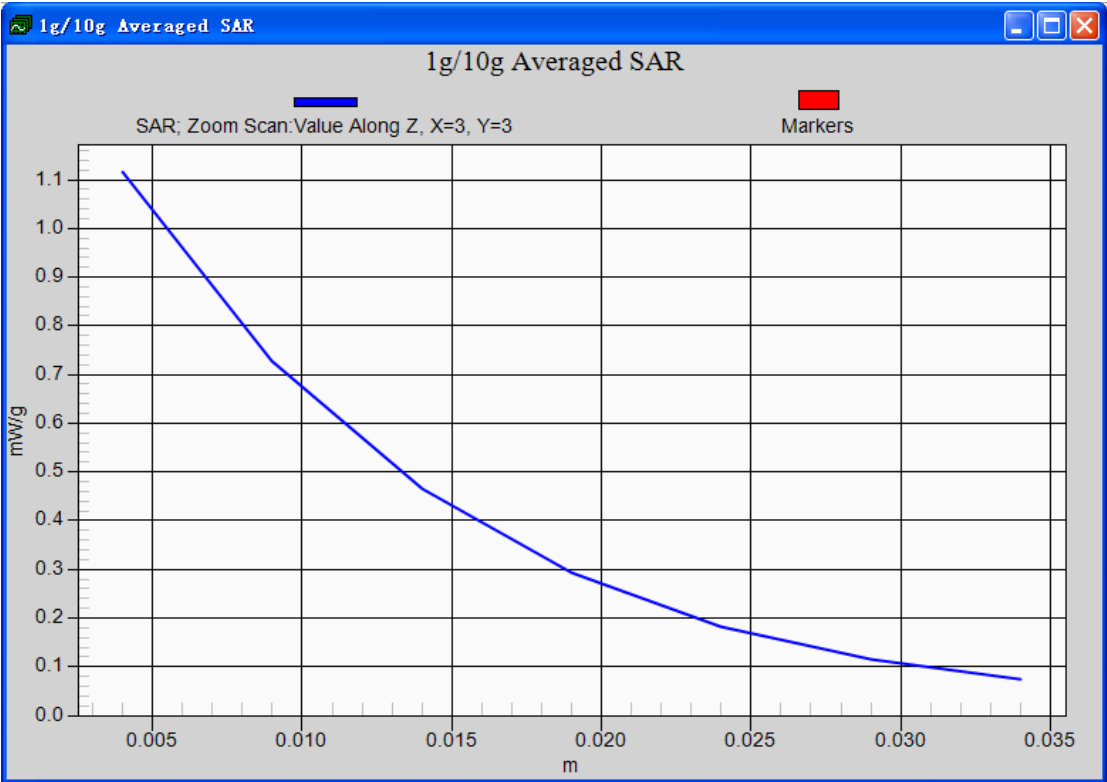


E173u-63 front side –WCDMA Band II Channel 9262

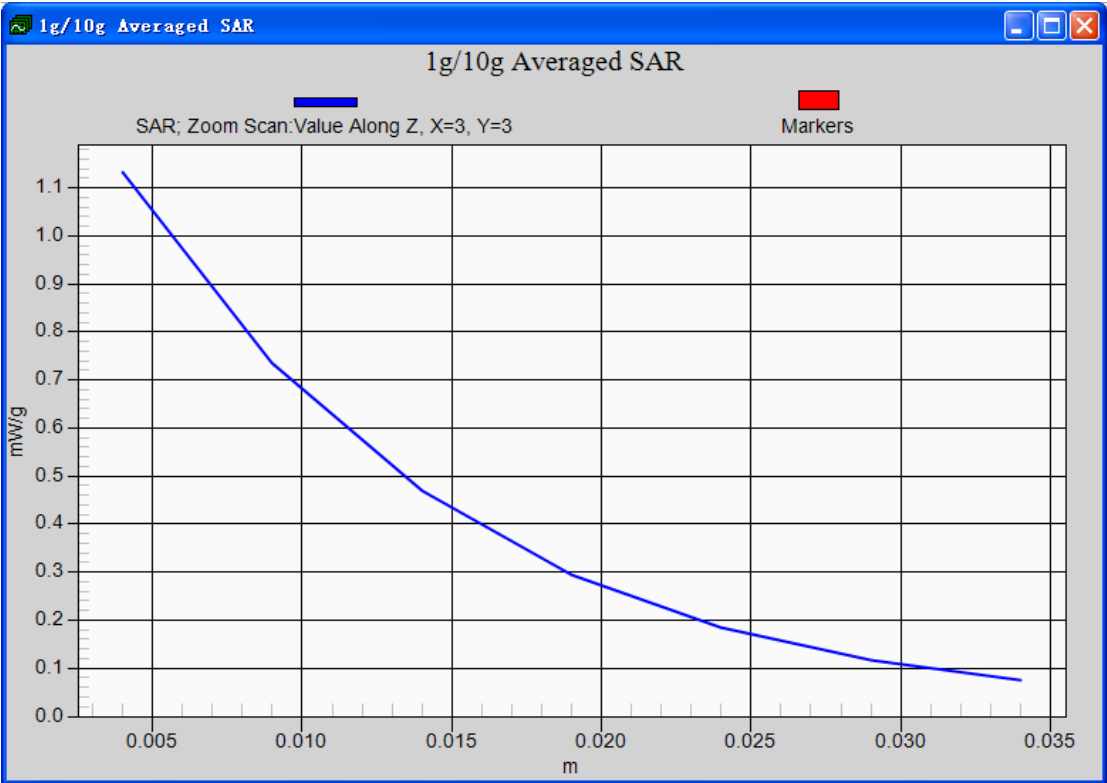




E173u-63 front side –WCDMA Band II with HSDPA Channel 9400



E173u-63 front side –WCDMA Band II with HSUPA Channel 9400



Annex 3 Calibration parameters

Calibration parameters are described in the additional document:

**Appendix to test report no. SYBH(Z-SAR)008112010-2
Calibration data, Phantom certificate
and detail information of the DASY5 System**

Annex 4 Photo documentation

Annex 4.1 Test Facility

Photo 1: Measurement System DASY5



Photo 2: Measurement System DASY5

